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TRIPLE BALANCE TEST OF THE PRR BASELINE
SPACE SHUTTLE CONFIGURATION ON A .004 SCALE
MODEL OF THE MCR 0074 ORBITER
CONFIGURATION IN THE MSFC 14 x 14 INCH
TRISONIC WIND TUNNEL (TWT 570) [IA31F(B)]

By

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by

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ABSTRACT

A wind tunnel force and moment test of the Space Shuttle launch vehicle was conducted at the Marshall Space Flight Center 14 x 14 Inch Trisonic Wind Tunnel. The orbiter configuration was a .004 scale model of the MCR 0074 (PRR Baseline). The wind tunnel model utilized a triple balance such that component aerodynamics of the Orbiter, External Tank and Solid Rocket Booster could be obtained. The test was conducted at an angle of attack range from -10° to 10° , an angle of sideslip range from -10° to 10° and a Mach number range from .6 to 4.96.

In addition to the static stability data, other runs were made to identify key simulation parameters to be used in future launch vehicle wind tunnel tests. The following parameters were investigated:

- Effect of Orbiter - ET attach hardware
- Model attachment (spacer) effects
- Effects of "grit" on model leading surfaces
- Model misalignment effects

The effect of External Tank nose shape was also studied by investigating five different nose configurations.

This report has been divided into two volumes arranged as follows:

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NOMENCLATURE

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; ft/sec
M	MACH	Mach number
P		pressure; psi
q	Q(Psi)	dynamic pressure; psi
RN/L	RN/L	unit Reynolds number; per ft
V		velocity; ft/sec
α	ALPHA	angle of attack of reference body; deg
β	BETA	angle of sideslip of reference body; deg
δ	DELTA	inclination of orbiter base, degrees
ψ	PSI	angle of yaw of reference body; deg
ϕ	PHI	angle of roll of reference body; deg
i_0	ORBINC	incidence angle between orbiter and external tank centerlines; deg
x		horizontal separation distance between orbiter and tank aft attach points; in.
z	DELTAZ	vertical separation distance between orbiter and tank aft attach points; in.
x,y,z		right-handed coordinate axis system
X,Y,Z		model stations, positive in the same directions as the x, y, z axis system except for Z, which is positive in the negative direction of z; in.
SRB		Solid Rocket Booster
T		temperature; °F
ET		External Tank

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
F_A		axial force (AF), positive in the negative direction of x; lb
F_N		normal force (NF), positive in the negative direction of z; lb
F_Y		side force (SF), positive in the positive direction of y; lb
M_x		rolling moment (RM); a moment about the x-axis (a positive rolling moment tends to rotate the positive y-axis toward the positive z-axis); in.-lb
M_y		pitching moment (PM); a moment about the y-axis (a positive pitching moment tends to rotate the positive z-axis toward the positive x-axis); in.-lb
M_z		yawing moment (YM); a moment about the z-axis (a positive yawing moment tends to rotate the positive x-axis toward the positive y-axis); in.-lb

REFERENCE, C.P. AND C.G. DEFINITIONS

A_b		base area; in. ²
b	BREF	wing span or reference span; in.
c.g.		center of gravity; in.
l_{BODY}		body length; in.
l_{REF}	LREF	reference length; in.
\bar{c}		wing mean aerodynamic chord; in.
s	SREF	wing area or reference area; in. ²
BMC		balance moment center

NOMENCLATURE (Continued)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
MRP	MRP	moment reference point
XMRP	XMRP	moment reference point on X axis; in.
YMRP	YMRP	moment reference point on Y axis; in.
ZMRP	ZMRP	moment reference point on Z axis; in.
c.p.		center of pressure
$X_{CP/\ell}$	XCP/L	center of pressure location based on body length; $\frac{X_{c.g.}}{\ell_{BODY}} - \frac{C_{m_m}}{C_{N_m}} \frac{\ell_{REF}}{\ell_{BODY}}$
$Y_{CP/\ell}$	YCP/L	center of pressure location based on body length; $\frac{Y_{c.g.}}{\ell_{BODY}} - \frac{C_{n_m}}{C_{Y_m}} \frac{\ell_{REF}}{\ell_{BODY}}$

COEFFICIENTS (MISSILE AXIS SYSTEM)

C_{A_m}	CA	axial force; $F_A/q_\infty S_{REF}$
$C_{A_{b_m}}$	CAB	base axial force; $(P_\infty - P_b) A_b/q_\infty S_{REF}$
$C_{A_{f_m}}$	CAF	forebody axial force; $C_A - C_{A_b}$
C_{ℓ_m}	CBL	rolling moment; $M_x/q_\infty S_{REF} b_{REF}$
C_{m_m}	CLM	pitching moment; $M_y/q_\infty S_{REF} \ell_{REF}$
C_{N_m}	CN	normal force; $F_N/q_\infty S_{REF}$

NOMENCLATURE (Concluded)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
C_{n_m}	CYN	yawing moment; $M_z/q_\infty S_{REF} b_{REF}$
C_p	CP	pressure coefficient; $(P_1 - P_\infty)/q_\infty$
C_{Y_m}	CY	side force; $F_y/q_\infty S_{REF}$
C_{n_β}	CYNBET	yawing moment coefficient derivative with beta
C_{y_β}	CYBETA	side force coefficient derivative with beta
$C_{n_{\alpha=0}}$	CNAFO	normal force coefficient at an alpha of zero degrees
$C_{A_{B_{\alpha=0}}}$	CABAFO	base axial force coefficient at an alpha of zero degrees
$C_{m_{\alpha=0}}$	CLMAFO	pitching moment coefficient at an alpha of zero degrees
$C_{A_{f_{\alpha=0}}}$	CAFAFO	forebody axial force coefficient at an alpha of zero degrees
$C_{N_{TOTAL}}$	CNT	normal force coefficient for the total vehicle
$C_{M_{TOTAL}}$	CLMT	pitching moment coefficient for the total vehicle
$C_{Y_{TOTAL}}$	CYT	side force coefficient for the total vehicle
C_{N_α}	CNALFA	normal force coefficient derivative with alpha
C_{m_α}	CLMALF	pitching moment coefficient derivative with alpha
	SPACER	spacer number listed as fore and aft spacers separated by a decimal
"D"	SPADIA	spacer diameter
GAP	SPAGAP	spacer gap

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	freestream
REF	reference
BODY	body reference
m	missile axis
AVE	average

INTRODUCTION

Tests were conducted in the MSFC 14 x 14 inch Trisonic Wind Tunnel to determine static stability data for each component of the Space Shuttle in the launch configuration. Force and moment data were obtained at Mach numbers of .6, .8, .9, 1.05, 1.25, 1.46, 1.96, 2.99, 3.5, 4.0 and 4.96. Actual test conditions are shown in TABLE I. System angle of attack (α) was varied between -10° and $+10^\circ$. System sideslip angle (β) varied from -10° to $+10^\circ$ while α was held at -5° , 0° and 5° . TABLE II contains the run schedule showing all runs made.

Because each model was mounted on a separate sting, sting deflections and thus relative positions of each model were changing during each run. An existing computer program (Reference 1) was used to interpolate all data to nominal values of the separation distance, z , and the incidence angle, i_0 , of the orbiter with respect to the External Tank. Photographs of the model installation are shown in Figures 1 through 4.

Studies were also made during this test to determine the effects of Orbiter-External Tank attach hardware and Orbiter-External Tank model support hardware by making runs with and without the above mentioned items. The support hardware study was quite extensive with several different diameters and locations of the supports being tested. The results of varying these parameters and other parameter variations tested during a following test (TWT-573) are presented under a separate cover (Reference 2).

The interpolated data from this test were used together with force and moment measurements on the composite vehicle from TWT 566 and pressure

data on the composite vehicle (TWT 567) to produce a complete data package for the launch vehicle (Reference 3).

The test was assigned a test number of TWT 570 and a NASA series number of IA31F(B). Project engineers for the test were Paul Ramsey of NASA/MSFC and Tommy Davis of Northrop Services, Inc.

CONFIGURATIONS INVESTIGATED

Test results were obtained on a .004 scale model of the 0074 PRR Baseline Launch Configuration. Each of the model components tested are listed below. Pertinent dimensional data for these components are given in Table 3.

<u>MODEL COMPONENT SYMBOL</u>	<u>DESCRIPTION</u>
O3	PRR Baseline Orbiter less abort Solid Rocket Motors (B1) (C5D7F4M3) (W87E18) (V5R5).
T9	1.296-inch diameter External Tank with 2.4 inch radius ogive nose.
T7	1.296-inch diameter External Tank with 2.4 inch radius ogive nose and a .556 inch long nose spike.
T10	T9 External Tank with 7/8 inch sting instead of standard 5/8 inch sting.
T11	1.296-inch diameter External Tank with 4.82 inch radius ogive nose.
T12	1.296-inch diameter External Tank with triconic nose.
T13	1.296-inch diameter External Tank with quadraconic nose.
S3	.568-inch diameter Solid Rocket Motor with 18° nose cone.
U5	Aft interstage structure consisting of tie-downs among tank, orbiter and SRB's.
Y1E	spacer attached to ET, both fore and aft.
Y2E	spacer attached to ET at forward position only.
Y3E	spacer attached to ET at aft position only.

MODEL COMPONENT
SYMBOL

Y10	spacer attached to orbiter, both fore and aft attach points.
Y20	spacer attached to orbiter at forward position only.
Y30	spacer attached to orbiter at aft position only.

The orbiter had no rudder flare or elevon deflection. The Launch Configuration models are mounted on the MSFC Parallel Staging Mounting System with the orbiter, external tank and SRB's on separate stings. Data were recorded by the separate balances for the following configurations:

ORBITER BALANCE

<u>Configuration</u>	<u>Orbiter in Presence of:</u>
(O ₃)/(T ₉)/(S _{3/2})/(S _{3/2})	T ₉ external tank with SRB's present but not attached.
(O ₃)/(T ₉)/(U ₅)/(S _{3/2})/(S _{3/2})	T ₉ external tank with attach hardware and both SRB's present but not attached.
(O ₃)/(T ₉)/(S _{3/2})/(S _{3/2}) Y1E	T ₉ external tank with spacers attached to ET both fore and aft. Both SRB's are present but not attached.
(O ₃)/(T ₉)/(S _{3/2})/(S _{3/2}) Y1EG	Same as above with grit applied to models.
(O ₃)/(T ₉)(U ₅)/(S _{3/2})/(S _{3/2}) Y1E	T ₉ external tank with spacers attached to ET both fore and aft, and attachment hardware on ET. Both SRB's are present but not attached.
(O ₃)/(T ₉)(U ₅)/(S _{3/2})/(S _{3/2}) Y2E	Same as above with spacer attached only in forward position.

ConfigurationOrbiter in Presence of:

(O₃)/(T₉)/(S_{3/2})/(S_{3/2}) Y3E

T₉ external tank with spacers attached to ET in aft position only. Both SRB's are present but not attached.

(O₃)/(T₉)/(S_{3/2})/(S_{3/2}) Y10

T₉ external tank with spacers attached to orbiter both fore and aft. Both SRB's are present but not attached.

(O₃)/(T₉)/(S_{3/2})/(S_{3/2}) Y20

Same as above with spacer only on forward attach point.

(O₃)/(T₉)/(S_{3/2})/(S_{3/2}) Y30

Same as above with spacer only on aft attach point.

(O₃)/(T₁₁)/(S_{3/2})/(S_{3/2})

T₁₁ external tank with SRB's present but not attached.

(O₃)/(T₁₂)/(S_{3/2})/(S_{3/2})

T₁₂ external tank with SRB's present but not attached.

(O₃)/(T₇)/(S_{3/2})/(S_{3/2})

T₇ external tank with SRB's present but not attached.

(O₃)/(T₁₃)/(S_{3/2})/(S_{3/2})

T₁₃ external tank with SRB's present but not attached.

(O₃)/(T₉)/(S_{3/2})/(S_{3/2}) G

T₉ external tank with SRB's present but not attached. Grit is applied to each model.

EXTERNAL TANK BALANCEConfigurationET in Presence of:

(T₉)/(O₃)/(S_{3/2})/(S_{3/2})

Orbiter and both SRB's.

(T₉)(U₅)/(O₃)/(S_{3/2})/(S_{3/2})

The attach hardware, the orbiter and both SRB's.

(T₉)(U₅)(S_{3/2})/(O₃)/(S_{3/2})

The orbiter and one SRB with the attach hardware and the right-side SRB attached to the tank.

(T₉)/(O₃)/(S_{3/2})/(S_{3/2}) Y1E

The orbiter and both SRB's with fore and aft spacers attached to the tank.

ConfigurationET in Presence of:

(T ₉)/(O ₃)/(S _{3/2})/(S _{3/2}) Y1E G	Same as above with grit applied to models.
(T ₉)(U ₅)/(O ₃)/(S _{3/2})/(S _{3/2}) Y1E	The orbiter and both SRB's with fore and aft spacers and the attach hardware attached to the tank.
(T ₉)(U ₅)/(O ₃)/(S _{3/2})/(S _{3/2}) Y2E	Same as above with spacer only on tank forward attach point.
(T ₉)/(O ₃)/(S _{3/2})/(S _{3/2}) Y3E	The orbiter and both SRB's with spacer attached to tank at aft attach point.
(T ₉)/(O ₃)/(S _{3/2})/(S _{3/2}) Y2E	The orbiter and both SRB's with spacer attached on tank forward attach point.
(T ₉)/(O ₃)/(S _{3/2})/(S _{3/2}) Y1O	The orbiter with fore and aft spacers and both SRB's.
(T ₉)/(O ₃)/(S _{3/2})/(S _{3/2}) Y2O	The orbiter with forward spacer and both SRB's.
(T ₉)(U ₅)/(O ₃)/(S _{3/2})/(S _{3/2}) Y2O	The same as above with attach hardware attached to the tank.
(T ₉)/(O ₃)/(S _{3/2})/(S _{3/2}) Y3O	The orbiter with aft spacer and both SRB's.
(T ₉)(S _{3/2})/(O ₃)/(S _{3/2})	The orbiter and both SRB's with right-side SRB attached to tank.
(T ₉)/(O ₃)/(S _{3/2})/(S _{3/2}) G	The orbiter and both SRB's with grit applied to all models.

SRB BALANCEConfigurationSRB in Presence of:

(S _{3/2})/(O ₃)/(T ₉)/(S _{3/2})	Orbiter, external tank and right-side SRB. All are on separate stings.
(S _{3/2})/(O ₃)/(T ₉)(U ₅)/(S _{3/2})	Same as above with attach hardware attached to ET.
(S _{3/2})/(O ₃)/(T ₉)(U ₅)(S _{3/2})	Same as above with attach hardware and right side SRB attached to ET.

Configuration

SRB in Presence of:

(S _{3/2})/(O ₃)/(T ₉)/(S _{3/2}) Y1E	Orbiter, external tank and right-side SRB with fore and aft spacers on ET.
(S _{3/2})/(O ₃)/(T ₉)/(S _{3/2}) Y1E G	Same as above with grit applied to all models.
(S _{3/2})/(O ₃)/(T ₉)(U ₅)/(S _{3/2}) Y1E	Orbiter, external tank and right-side SRB with fore and aft spacers and attach hardware on ET.
(S _{3/2})/(O ₃)/(T ₉)(U ₅)/(S _{3/2}) Y2E	Same as above with front spacer only on ET.
(S _{3/2})/(O ₃)/(T ₉)/(S _{3/2}) Y2E	Same as above without attach hardware on ET.
(S _{3/2})/(O ₃)/(T ₉)/(S _{3/2}) Y10	Orbiter with fore and aft spacers attached, external tank and right-side SRB.
(S _{3/2})/(O ₃)/(T ₉)/(S _{3/2}) Y20	Same as above with only forward spacer on orbiter.
(S _{3/2})/(O ₃)/(T ₉)/(S _{3/2}) Y30	Same as above with only aft spacer attached to orbiter.
(S _{3/2})/(O ₃)/(T ₉)(U ₅)/(S _{3/2}) Y20	Orbiter with forward spacer, external tank with attach hardware and right-side SRB.
(S _{3/2})/(O ₃)/(T ₉)(S _{3/2})	Orbiter and external tank with right-side SRB attached to tank.
(S _{3/2})/(O ₃)(T ₉)/(S _{3/2})	Orbiter and external tank attached on upper sting. Right-side SRB also present.

MODEL AND SUPPORT HARDWARE

The general arrangement of the .004 scale wind tunnel model of the Space Shuttle launch vehicle is shown in Figure 5. The model consists of an orbiter (O3), an external tank (ET), designated Tg and two solid rocket boosters (SRB's), designated S3.

The orbiter model is a 0074 baseline orbiter (reference drawings are given in Table 3). Model length is approximately 5.3 inches with a wing span of 3.747 inches. A schematic of the orbiter is shown in Figure 6.

Five different ET configurations were tested. The difference in these configurations is the nose shape. The ET model is equipped with detachable Orbiter-External Tank attach hardware. Runs were made with and without the attachment hardware. Actual model length of the ET is 7.304 inches and diameter is 1.296 inches. The ET model is shown in Figure 7 and the five nose shapes in Figure 9.

A schematic of the SRB model is presented in Figure 8. Model length is 7.032 inches and model diameter is .568 inches. The model includes the SRB-Orbiter attach ring and the separation rockets. No other protruberances were modeled.

Both the orbiter and external tank were instrumented with six-component internal strain gage balances (numbers 231 and 232). The left SRB was instrumented with a new 4-component (normal and side force, pitch and yawing moments) internal strain gage balance (number 240). The balance and sting for this SRB were fabricated as one piece. The right SRB was not instrumented and was a permanent part of the sting. The two SRB

models were held to the lower sting by an existing dual sting adapter (Figure 10) which also held the models away from the ET surface laterally.

Base pressures on the orbiter, ET, and left-side SRB were measured. The effect of base pressures on the orbiter axial force were eliminated before moments were transferred. Actual moment transfer equations are shown in the Data Reduction section. The location of base pressure tubes on the models are shown in Figure 11. Where more than one measurement was made, the pressures were averaged and applied over the entire base of the model.

The MSFC dual sting staging system (Figure 12 and Reference 4) was the support hardware used in the test. This system allows two models to be moved with three degrees of freedom. The upper model can be moved vertically and pitched relative to the lower model. The lower model can be moved horizontally. For this test the horizontal position was fixed in the nominal launch position (alignment of the two aft attach points). The vertical separation of the two models (z) was measured between the aft attach points on the two models as shown in Figure 13. The angle of incidence between the two models (i_0) is the angle between their centerlines. This angle is positive in the direction of positive angle of attack.

Several runs were made with "grit" on all three models. Number 80 grit was placed on the orbiter wing and tail. Number 180 grit was placed on the nose of each model. Grit locations are shown in Figure 14 for the orbiter and Figure 15 for the ET and SRB.

A model-to-model fouling problem had been encountered on previous tests of this type. Fouling was monitored on this test by placing a fouling strip on the models at the point of most probable contact and using a previously designed fouling circuit. Fouling between the ET and SRB was detected on runs 310, 311, 312, 313, 314, 327, 328, 329, 330, 331. This fouling is obvious when plots containing these runs are viewed.

TEST FACILITY DESCRIPTION

The NASA/MSFC 14 x 14-inch Trisonic Wind Tunnel is an intermittent blowdown type that exhausts into a vacuum system or the atmosphere. The important operational characteristics of this facility are discussed below.

The Trisonic Wind Tunnel is capable of covering the Mach number range of 0.2 to 5.0 by utilizing a transonic section for the 0.2 to 1.96 range and a supersonic section for the 2.74 to 4.96 range. Mach number variations between 0.2 and 0.8 are obtained by using a controllable diffuser. Mach numbers between 0.90 and 1.3 are achieved by the use of plenum suction and the perforated walls in the test section. Mach numbers of 1.46 and 1.96 are obtained by utilizing fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzles are tilted and translated automatically to produce Mach numbers in .25 increments.

The required recharge time for the tunnel is nominally 5-10 minutes with the transonic test section and 15-20 minutes for the supersonic section. Changeover from the transonic section to the supersonic section requires approximately 40 minutes.

Actual run times are dependent upon actual tunnel conditions, i.e., Mach number and stagnation pressure. Nominal run times are approximately 1.5 to 2.0 minutes in the transonic section and 45 to 50 seconds in the supersonic section.

The data acquisition system is a solid state analog-to-digital converter which has 12 data channels, 10 of which are available to the customer. Raw data is recorded on punched cards for transfer to a computer which reduces the data to coefficient form.

TEST PROCEDURE

Due to sting deflections, data interpolation was necessary to obtain data at the nominal separation distance (.14 inches) and incidence angle ($.5^\circ$). This required data for two different separation distances and three orbiter-to-tank incidence angles. The z distances chosen were .14 and .28 inches, measured at the aft attach point and incidence angles (i_0) of $-.5$, $.5$ and 1.5 degrees. The i_0 angle is measured relative to the tank centerline. For beta sweeps at $\alpha = 0$ degrees, only the nominal position was tested. For beta sweeps at $\alpha = \pm 5^\circ$, all six points were tested.

Runs were made to determine the effects of the Orbiter-External Tank attach hardware after modeling the attach hardware as closely as possible. All six i_0 and z positions were tested to allow interpolation of the data. Runs were also made to determine the effects of Orbiter-External Tank model support hardware (spacers). This was the same type of hardware used to connect models on the launch vehicle tests TWT 566 and TWT 567. Table 4 shows pertinent spacer dimensions and Figure 16 shows typical spacer drawings.

Test 567 required a larger sting in the ET than did the present test. The effects of the larger sting diameter on the SRB was investigated by making runs with an enlarged sting (T_{10}). Runs were also made with no sting in the ET to enable predictions of total sting effects on SRB data.

The right-side SRB was tested both metric (attached to the ET) and non-metric (sting mounted) to enable an estimate of SRB forebody drag.

This method was required because there was no axial force gage in the SRB balance. The nose shape study was also made metric and non-metric.

DATA REDUCTION

The parameters recorded and characteristics calculated were:

1. Freestream total pressure, P_t
2. Freestream static pressure, P_∞
3. Dynamic pressure, q_∞
4. Mach number, M_∞
5. Freestream Reynold's number per unit length, RN/ℓ_{REF}
6. Nominal angle of attack of ET, α
7. Vertical sting deflection, ΔZ , + in direction of + normal force
8. Angular sting deflection, $\Delta\alpha$, + in direction of + α
9. Normal force coefficient, C_{N_m}
10. Pitching moment coefficient, C_{m_m}
11. Total axial force coefficient, CA_{T_m} (orbiter and ET only)
12. Base axial force coefficient, CA_{b_m}
13. Side force coefficient, C_{Y_m}
14. Yawing moment coefficient, C_{n_m}
15. Rolling moment coefficient, C_{ℓ_m} (orbiter and ET only)

Reference quantities used to reduce the data are presented in Table 5. Figure 17 shows the sign conventions on the forces and moments in the missile axis system. Orbiter, ET, and SRB data were output as functions of ET angle of attack. Base pressure probe locations are shown in Figure 11. On the ET and orbiter, the base pressures were averaged and applied to the total base area.

All model force and moments are resolved in the missile axis system. The following relationships were used to non-dimensionalize force and moment measurements:

$$C_{N_m} = \frac{F_N}{q S_{REF}}, \text{ normal force coefficient}$$

$$C_{A_m} = \frac{F_A}{q S_{REF}}, \text{ total axial force coefficient}$$

$$C_{Y_m} = \frac{F_Y}{q S_{REF}}, \text{ side force coefficient}$$

$$C_{m_m} = \frac{M_y}{q S_{REF} \ell_{REF}}, \text{ pitching moment coefficient}$$

$$C_{n_m} = \frac{M_z}{q S_{REF} \ell_{REF}}, \text{ yawing moment coefficient}$$

$$C_{\ell_m} = \frac{M_x}{q S_{REF} \ell_{REF}}, \text{ rolling moment coefficient}$$

$$C_{A_{B_m}} = \frac{-C_{p_b}}{S_{REF}} A, \text{ base axial force coefficient}$$

$$C_{p_b} = \frac{(P)_{AVE} - P_\infty}{q}, \text{ base pressure coefficient}$$

$$C_{A_{F_m}} = C_{A_m} - C_{A_{B_m}}, \text{ forebody axial force coefficient}$$

For the orbiter and ET, moment coefficients shown in this report are referenced to the position of the orbiter nose on the ET centerline. For the SRB's, the absence of axial force measurements restricted its moment reference point to the projection of the orbiter nose on the SRB centerline. Reference dimensions and the location of each BMC from the nose of the individual models are shown in Table 5.

For the orbiter, moments were transferred from the balance moment center (BMC) to the orbiter nose and the ET centerline. Axial and normal force were rotated through i_0 to facilitate the summation of total body data. Base pressure was subtracted from the pitching moment equation. Orbiter C_{N_m} and C_{A_m} were corrected for base pressure in the following manner:

$$C_{A_{F_m}} = C_{A_m} - C_{A_{b_m}} \cos \delta_{AVE}$$

$$C_{N_m} = C_{N_m} - C_{A_{b_m}} \sin \delta_{AVE}$$

where δ_{AVE} is the average inclination of the orbiter base (see Figure 18).

The moments were then transferred to the moment reference center.

$$\begin{aligned} C_{m_m})_{MRP} &= C_{m_m})_{BMC} - C_{N_m} \left[\frac{\Delta X_1}{l_{REF}} \right] - C_{A_b} \left[\frac{\Delta Z_2}{l_{REF}} \right] \cos \delta_{AVE} \\ &+ C_{A_{b_m}} \sin \delta_{AVE} \left[\frac{\Delta X_7}{l_{REF}} \right] + (C_{A_{F_m}} \cos i_0 + C_{N_m} \sin i_0) \\ &\times \frac{\Delta Z_3}{l_{REF}} \end{aligned}$$

$$C_{n_m})_{MRP} = C_{n_m})_{BMC} - C_{Y_m} \left[\frac{\Delta X_1}{l_{REF}} \right]$$

$$C_{\ell_m})_{MRP} = C_{\ell_m})_{BMC} - C_{Y_m} \left[\frac{\Delta Z_4}{l_{REF}} \right]$$

From Figure 18:

$$\Delta X_1 = 3.7 \text{ inches}$$

$$\Delta X_7 = 1.53 \text{ (area centroid)}$$

$$\Delta Z_2 = .058 \text{ (area centroid)}$$

$$\Delta Z_3 = 1.192 + 2 + 4.428 \sin i_0$$

$$\Delta Z_4 = 1.192 + 2 + .728 \sin i_0$$

$$\delta_{AVE} = 12^\circ$$

The parameters z and i_0 depend on the run made. The previous values of C_N and C_A are then rotated through i_0 .

$$C_{N_m} = C_{N_m})_{pre} \cos i_0 - C_{A_{Fm})_{pre} \sin i_0$$

$$C_{A_{Fm}} = C_{A_{Fm})_{pre} \cos i_0 + C_{N_m})_{pre} \sin i_0$$

For the external tank, moments were transferred to the projection of the orbiter nose on the tank centerline. The equations are:

$$C_{m_m} = C_{m_m})_{BMC} - C_{N_m} \left[\frac{\Delta X_5}{l_{REF}} \right]$$

$$C_{n_m} = C_{n_m})_{BMC} - C_{Y_m} \left[\frac{\Delta X_6}{x_{REF}} \right]$$

$$C_{x_m} = C_{x_m}$$

where $\Delta X_6 = 2.901$

REFERENCES

1. Cole, Paul, "Double Interpolation Program For Use With the MSFC Staging Mechanism", Northrop Memorandum, M-9241-72-67, May 1972.
2. Rappy, J. M. and T. C. Davis, "Effects of Model Variables on SSLV and Component Aerodynamics", Northrop Memorandum, M-9230-73-220, Sept. 1973.
3. Dill, Charlie C., "Preliminary Aerodynamic Loads Breakdown in Pitch for Shuttle Launch Configuration 2A", S&E-SERO-AA-73-62, Sept. 1973.
4. Cole, Paul, "MSFC 14" TWT Dual Sting Support Mechanism Users Information", Northrop Memorandum, M-9241-72-69, May 1972.

DATE: 4/13/73 - 4/30/73
6/25/73 - 6/28/73

TABLE Ia.

TEST CONDITIONS
TEST TWT 570

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	$4.95 \times 10^6/\text{ft.}$	4.35	100
0.80	6.00	6.45	100
0.90	6.25	7.36	100
1.05	6.45	8.47	100
1.25	6.48	11.48	100
1.46	6.50	9.47	100
1.96	6.92	10.20	100
2.99	9.00	10.58	140
3.50	6.96	6.36	140
4.00	7.50	6.64	140
4.96	4.90	3.07	140

BALANCE UTILIZED: MSFC 231

CAPACITY:

NF 122 lbs
SF 52 lbs
AF 22 lbs
PM 122 in.-lbs
YM 53 in.-lbs
RM 30 in.-lbs

ACCURACY:

± .61
± .26
± .10
± .61
± .27
± .15

COEFFICIENT
TOLERANCE:

± .0082
± .0035
± .0013
± .0015
± .0007
± .0004

COMMENTS:

DATE: 4/13/73 - 4/30/73
6/25/73 - 6/28/73

TABLE 1b.
TEST CONDITIONS
TEST TWT 570

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	$4.95 \times 10^6/\text{ft}$	4.35	100
0.80	6.0	6.45	100
0.90	6.25	7.36	100
1.05	6.45	8.47	100
1.25	6.48	11.48	100
1.46	6.5	9.47	100
1.96	6.92	10.20	100
2.99	9.0	10.58	140
3.50	6.96	6.36	140
4.00	7.5	6.64	140
4.96	4.9	3.07	140

BALANCE UTILIZED: MSFC 232A

CAPACITY:

NF 300 lbs
SF 143 lbs
AF 50 lbs
PM 400 in.-lbs
YM 192 in.-lbs
RM 100 in.-lbs

ACCURACY:

± 1.5
 $\pm .72$
 $\pm .25$
 ± 2.00
 $\pm .96$
 $\pm .50$

COEFFICIENT
TOLERANCE:

$\pm .02$
 $\pm .01$
 $\pm .003$
 $\pm .013$
 $\pm .003$
 $\pm .001$

COMMENTS:

DATE: 4/13/73 - 4/30/73
6/25/73 - 6/28/73

TABLE 1c.
TEST CONDITIONS
TEST TWT 570

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	$4.95 \times 10^6/\text{ft}$	4.35	100
0.80	6.0	6.45	100
0.90	6.25	7.36	100
1.05	6.45	8.47	100
1.25	6.48	11.48	100
1.46	6.5	9.47	100
1.96	6.92	10.20	100
2.99	9.0	10.58	140
3.50	6.96	6.36	140
4.00	7.5	6.64	140
4.96	4.9	3.07	140

BALANCE UTILIZED: MSFC 240

CAPACITY:

NF 20 lbs
SF 20 lbs
AF
PM 40 in.-lbs
YM 40 in.-lbs
RM

ACCURACY:

COEFFICIENT
TOLERANCE:

COMMENTS:

DATE: 4/13/73 - 4/30/73
6/25/73 - 6/28/73

TABLE II.
TEST TWT 570 DATA SET/RUN NUMBER COLLATION SUMMARY

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				No. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)												
		α	β	i_0	z	ϕ_s/k_s	ϕ/k_s		%	%	.6	.8	.9	1.05	1.25	1.46	1.96	2.99	3.5	4.0	4.96
RB3001	$(O_3)/(T_9)/(S_3)$	A	0	-5°	.14"			10	1	2	3	4	5	36	37	60	59	58			
002				-5°				10	20	19	19	10	17	34	39	55	56	57			
003				-5°	+			10	21	22	23	25	24	32	41	54	53	52			
004				-5°	.28"			10	10	9	8	7	6	35	38	49	50	51			
005				-5°				10	11	12	13	15	14	33	40	48	47	46			
006		+	+	-5°	+			10	30	29	28	26	27	31	42	43	44	45			
007		0	B	-5°	.14"			10	105	104	103	102	101	100	142	61	62	63			
008		0	0	-5°	.14"			2	X	X	X	257	X	X	X	X	X	X			
009		5°	B	-5°	.14"			6	X	X	X	106	107	103	99	65	64				
010				-5°				6	X	X	X	111	110	109	98	66	67				
011				-5°	+			6	X	X	X	112	113	107	97	68	68				
012				-5°	.28"			6	X	X	X	117	116	115	96	70	71				
013		+	+	-5°	+			6	X	X	X	118	119	120	95	72	77				
014		-5°	B	-5°	.14"			6	X	X	X	123	122	121	94	74	75				
015				-5°				6	X	X	X	124	125	124	93	77	76				
				-5°				6	X	X	X	129	128	127	92	78	79				
				-5°	+			6	X	X	X	130	131	132	91	81	80				
017				-5°	.28"			6	X	X	X	135	134	133	90	87	83				
018				-5°				6	X	X	X	136	137	138	89	85	84				
019	+	+	+	-5°	+	+	+	6	X	X	X	141	140	139	88	86	87				

1 7 13 19 25 31 37 43 49 55 61 67 7576

CN CLM CY CYN CBL CBF CAB MACH ALPHA 07

COEFFICIENTS: IDPVAR(1) IDPVAR(2) NDV

α or β ANGLE OF ATTACK A = -10° to 10° in 2° increments

SCHEDULES ANGLE OF SIDESLIP B = -10° to 10° in 2° increments

TABLE II. (CONTINUED)
TEST TWT 570 DATA SET/RUN NUMBER COLLATION SUMMARY

☐ PRETEST

☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.	PARAMETERS / VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)											
			α	β	i_0	z		θ/k_0	γ/k_0	.6	.8	.9	1.05	1.25	1.46	1.96	2.99	3.50	4.0
R83 020	$(O_3)/(T_0)(U_5)/(S_2)$	A	O		-5°	$1.4''$	9.40	$9/0$	6	165	X	164	163	162	X	191	X	155	X
021					$.5^\circ$				6	173	X	72	71	70	X	141	X	156	X
022					1.5°	\downarrow			6	181	X	180	179	178	X	192	X	157	X
023					-5°	$.28''$			6	166	X	167	168	169	X	193	X	158	X
024					$.5^\circ$				6	174	X	175	176	177	X	194	X	159	X
025		\downarrow	\downarrow		1.5°	\downarrow			6	182	X	183	184	185	X	195	X	160	X
026	\downarrow	O	B		$.5^\circ$	$1.4''$			6	189	X	188	187	186	X	196	X	161	X
036	$(O_3)/(T_0)(U_5)/(S_2)$	A	O						6	177	X	198	194	200	X	201	X	202	X
034	$(O_3)/(T_0)(S_{1/2})(U_5)/(S_{1/2})$	A	O						6	149	X	150	151	152	X	143	X	153	X
035	\downarrow	O	B						6	148	X	147	146	145	X	144	X	154	X
059	$(O_3)/(S_{1/2})(T_0)/(S_{1/2})$	O	O						2	X	X	294	X	289	X	X	X	X	X
060	\downarrow								9	347	346	345	343	341	348	351	352	X	282
075	$(O_3)/(S_{1/2})(T_0)/(S_{1/2})$								9	298	297	296	292	289	300	303	284	X	287
076	$(O_3)/(S_{1/2})(T_0)/(S_{1/2})$								9	299	296	295	291	290	301	302	285	X	286
077	$(O_3)/(S_{1/2})(T_0)/(S_{1/2})$								7	372	371	370	369	368	367	363	360	X	361
078	$(O_3)/(S_{1/2})(T_0)/(S_{1/2})$	\downarrow	\downarrow						9	392	391	390	379	375	376	364	358	X	359
061	$(O_3)/(T_0)(U_5)/(S_2)$	A	O						6	181	280	279	277	278	X	X	267	X	262
Y062	\downarrow	O	B		\downarrow	\downarrow	\downarrow	\downarrow	6	275	274	273	276	272	X	X	283	X	

1 7 13 19 25 31 37 43 49 55 61 67 75 76

COEFFICIENTS: $\alpha = -10^\circ - 8^\circ - 6^\circ - 4^\circ - 2^\circ$ $\beta = 10^\circ 40' 60' 80' 100'$
 $\gamma = -10^\circ - 8^\circ - 6^\circ - 4^\circ - 2^\circ$ $\delta = 10^\circ 20' 40' 60' 80' 100'$
SCHEDULES

WASH. STATE UNIV. IDPVAR(1) IDPVAR(2) IDV

TABLE II. (CONTINUED)
TEST TWT 570 DATA SET/RUN NUMBER COLLATION SUMMARY

37

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES					NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)											
		α	β	ζ ₀	Z	φ ₀ /λ ₀	90%	φ/λ		δφ/λ	.6	.8	.9	1.05	1.25	1.46	1.96	2.99	3.50	4.0	4.96
R83079	(O ₃)/(T ₁₁)/(S ₃)	A	0	0	.50	.14	90%	0%	3			238		239						252	
080	↓	0	0						7			236	237	240		247	248	251			255
081	(O ₃)/(T ₁₂)/(S ₃)	A	0						3			243		242					253		
082	↓	0	0						7			245	244	241		246	249	250			254
063	(O ₃)/(T ₁₀)/(S ₃)	A	0						3					305	306	304					
064	↓	0	0						3					309	307	308					
083	(O ₃)/(T ₇)/(S ₃)	0	0						9			338	339	340	342	341	349	350	354		355
084	(O ₃)/(T ₁₃)/(S ₃)	0	0						9			373	374	375	376	377	366	365	356		357
065	(S _{3/2})/(T ₀)(O ₃)/(S _{3/2})	A	0						6			233		232	231	230		234		235	
066		0	0						10			312	311	310	314	315	327	328	329	330	331
067		A	0						6				322		321	323	324		333		332
068		5	0						6					316	315	317	326		337	336	
069	↓	-5	0						6					319	320	318	325		334	335	
070	(O ₃)/(T ₀)/(S ₃) Y1E	A	0						3			dy	dy								
071	↓	0	0						3			.2	.05	267	268	266			9	10	
072	(O ₃)/(T ₀)/(S ₃) Y10	A	0						3					271	269	270			9	10	
073	↓	0	0						3					258	260	259			21	22	
														262	261	263			21	22	

1 7 13 19 25 31 37 43 49 55 61 67 75.76
 CM ICLM ICY GYM IGBL CAE CAB
 COEFFICIENTS: $(A) \alpha = -10^\circ, -8^\circ, -6^\circ, -4^\circ, -2^\circ, 0^\circ, 2^\circ, 4^\circ, 6^\circ, 8^\circ, 10^\circ$
 α or β IDPVAR(1) IDPVAR(2) NDV

☐ PRETEST ☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. of RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)		# SHACERS FORE AFT
		α	β	ζ_0	ζ	ϕ_s/ζ_s	δ/ζ_s		dy	gy	
R83040	$(O_3)/(T_9)/(S_3) Y1E$	A	O	.5°	.14"	9%	0%	1	.1" .05"	217	7 8
041								1	.2	211	9 10
042								1	.3	218	11 12
043				▼				1	.2 .10"	219	13 14
044				1.5°				1	.05"	212	19 10
045				-.5°	▼			1		213	20 10
046				-.5° .28"				1		214	18 16
047				1.5°				1		215	17 16
048		▼	▼	.5°	▼			1		216	15 16
049	▼	O	3	.5° .14"				1		210	9 10
052	$(O_3)/(T_2)/(S_3) Y1O$	A	O					1		207	21 22
055	$(O_3)/(T_2)/(S_3) Y1E U_5$							1		203	9 10
074	$(O_3)/(T_3)/(S_3) Y2E$							1		265	9 X
056	$(O_3)/(T_3)/(S_3) Y2E U_6$							1		204	9 X
057	$(O_3)/(T_3)/(S_3) Y2O U_5$							1		205	21 X
	$(O_3)/(T_3)/(S_3) Y2O$							1		264	21 X
050	$(O_3)/(T_3)/(S_3) Y1E G$							1		220	9 10
051	$(O_3)/(T_3)/(S_3) Y3E$							1		209	X 10
054	$(O_3)/(T_3)/(S_3) Y3O$							1		208	X 22
▼ 053	$(O_3)/(T_3)/(S_3) Y2O$	▼	▼	▼	▼	▼	▼	1		206	21 X

75 76

69

19

59

1

1

1

1

1

1

1

1

1

—

COEFFICIENTS:

208

SCHEDULES

1DPVAR(1) 1DPV=8(1) 1NDV

100

1

— *Amorpha*

1

1

1000

100

13

33

TABLE III.
MODEL DIMENSIONAL DATA

MODEL COMPONENT: Body B10

GENERAL DESCRIPTION: Double Delta Wing Fuselage Per Lines VL70-00009
with 57.0 in Radius Nose.

2A Configuration Lt. Wt. Orbiter

Scale Model = .004

DRAWING NUMBER: V172-000061
VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length, in.	<u>1328.3</u>	<u>5.313</u>
Max. Width X_{0560} to X_{01307}	<u>216.0</u>	<u>0.864</u>
Max. Depth	<u>239.0</u>	<u>0.956</u>
Fineness Ratio	<u>5.495</u>	<u>5.495</u>
Area, FT^2		
Max. Cross-Sectional	<u>319.556</u>	<u>0.005</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

MODEL COMPONENT: Canopy - C5GENERAL DESCRIPTION: 2A Configuration Per NR Lines VL70-000092.Scale Model = .004DRAWING NUMBER: VL70-000092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Sta. Fwd Bulkhead	<u>391.00</u>	<u>1.564</u>
Sta. T.E.	<u>560.0</u>	<u>2.240</u>
Canopy Intersects Body ML	<u>391.00</u>	<u>1.564</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. (Continued)

MODEL COMPONENT: Manipulator Housing D-7GENERAL DESCRIPTION: 2A Configuration, Light WT. Orbiter Per Lines
VL70-000093Scale Model = .004DRAWING NUMBER: VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALELength, in. 881.00 3.524Max. Width, in. 51.00 0.204Max. Depth, in. 20.00 0.080Fineness Ratio Area Max. Cross-Sectional Planform Wetted Base

ϕ Fuselage, BP = 0.0
 WP = 500.0 INFS
 X₀ 426.0 to 1307.0

MODEL COMPONENT: F4 Body FlapGENERAL DESCRIPTION: 2A Configuration Per NR Lines VL70-000094 "A"Scale Model = .004DRAWING NUMBER: VL70-000094A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length, in.	<u>84.70</u>	<u>0.3388</u>
Max. Width, in.	<u>265.00</u>	<u>1.060</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform, ft ²	<u>142.63715</u>	<u>0.002282</u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. (Continued)

MODEL COMPONENT: OMS PODS-M3GENERAL DESCRIPTION: 2A Light WT Configuration; per MC120074,
Per NR Lines VL70-000094.Scale Model = .004DRAWING NUMBER: VL70-000094

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length, in.	<u>346.0</u>	<u>1.384</u>
Max. Width, in.	<u>108.0</u>	<u>0.432</u>
Max. Depth, in.	<u>72.8</u>	<u>0.291</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
<u>ℓ</u> of OMS POD	<u> </u>	<u> </u>

WP = 463.9 inches FS; WP 400.0 + 63.9 = 463.90 INFS
 1.600 + .2556 = 1.8556 INMS

BP = 80.0 in. FS; 0.320 INMS

From Fuselage Station 1214.0 to 1560 INFS = 346.0 INFS
 4.856 to 6.240 = 1.384 INMS

TABLE III. (Continued)

MODEL COMPONENT: Wing W-87 New Light WeightGENERAL DESCRIPTION: Orbiter Configuration per lines VL70-000093

Scale Model = .004

DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
<u>TOTAL DATA</u>		
Area, FT ² (W.R.P.)		
Planform	2689.38	0.043
Wetted	--	--
Span (equivalent), FT	77.12	0.308
Aspect Ratio	2.214	2.214
Rate of Taper	1.176	1.176
Taper Ratio	0.209	0.209
Dihedral Angle, degrees @ 75.33% element line	3.860	3.860
Incidence Angle, degrees @ .425% tol. 1.00%	3.000	3.000
Aerodynamic Twist, degrees	--	--
Toe-In Angle	--	--
Cant Angle	--	--
Sweep Back Angles, degrees		
Leading Edge	44.873	44.873
Trailing Edge	-10.242	-10.242
0.25 Element Line	35.050	35.050
Chords:		
Root (Wing Sta. 0.0)	690.19	2.761
Tip, (equivalent)	144.30	0.577
MAC	476.76	1.907
Fus. Sta. of .25 MAC	1136.12	4.544
W.P. of .25 MAC	289.44	1.158
B.L. of .25 MAC	181.03	0.724
Airfoil Section		
Root		
Tip		
<u>EXPOSED DATA</u>		
Area, FT ²	1746.87	6.987
Span, (equivalent), FT	59.16	0.237
Aspect Ratio	2.004	2.004
Taper Ratio	0.256	0.256
Chords		
Root	562.77	2.251
Tip	144.30	0.577
MAC	394.81	1.579
Fus. Sta. of .25 MAC	1185.17	4.741
W.P. of .25 MAC	291.56	1.166
B.L. of .25 MAC	250.54	1.002
<u>LEADING EDGE CUFF (data for (1) side)</u>		
Plan form area, FT ² (BP 108.0)	120.333	0.0019
L.E. Intersect Fus ML @ STA	560.0	2.240
L.E. Intersects Wing @ STA	1035.0	4.140

TABLE III. (Continued)

MODEL COMPONENT: Elevon E-18GENERAL DESCRIPTION: 2A Configuration Per W-87, NR Lines VL70-000093Data for (1) of (2) SidesModel Scale = .004DRAWING NUMBER: VL70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area, FT ²	<u>205.517</u>	<u>0.0033</u>
Span (equivalent), in.	<u>353.34</u>	<u>1.413</u>
Inb'd equivalent chord	<u>114.78</u>	<u>0.459</u>
Outb'd equivalent chord	<u>55.00</u>	<u>0.220</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.02</u>	<u>-10.02</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line), FT ³	<u>1548.07</u>	<u>0.00010</u>
Product of area moment		

TABLE III. (Continued)

MODEL COMPONENT: Vertical Tail V5 (Light Wt. Orbiter Config)GENERAL DESCRIPTION: Center Line Vertical Tail on the Double Delta Configuration with Double Wedge Airfoil and Rounded Leading Edge, TotalData Includes Void Area Listed Below Scale Model = .004DRAWING NUMBER: VL70-000095DIMENSIONS: FULL-SCALE MODEL SCALETOTAL DATA

Area, FT ²	386.05	0.006
* Void (included above), FT ²	13.17	0.0002
Blanketed included above, FT ²	12.67	0.0002
Span (equivalent), FT	24.37	0.097
Aspect Ratio	1.590	1.590
Rate of Taper	0.507	0.507
Taper Ratio	0.426	0.426
Dihedral Angle, degrees	--	--
Incidence Angle, degrees	--	--
Aerodynamic Twist, degrees	--	--
Toe-In Angle	0.0	0.0
Cant Angle	0.0	0.0
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Wing Sta. 0.0)	257.99	1.032
Tip, (equivalent)	109.78	0.439
MAC	193.84	0.775
Fus. Sta. of .25 MAC	1473.64	5.895
W.P. of .25 MAC	647.31	2.589
B.L. of .25 MAC	0.0	0.0
1 Airfoil Section		
Root		
Tip		

EXPOSED DATA

Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root		
Tip		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

*Void area noted is the area located at lower aft portion of tail surface.

TABLE III. (Continued)

MODEL COMPONENT: Rudder R5GENERAL DESCRIPTION: 2A Configuration Per NR Lines VL70-000095.Scale Model - .004DRAWING NUMBER: VL70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area, FT^2	<u>98.67</u>	<u>0.0016</u>
Span (equivalent), in.	<u>201.0</u>	<u>0.804</u>
Inb'd equivalent chord	<u>91.585</u>	<u>0.366</u>
Outb'd equivalent chord	<u>50.833</u>	<u>0.203</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83314</u>	<u>34.83314</u>
Tailing Edge	<u>26.24915</u>	<u>26.24915</u>
Hingeline	<u>34.83314</u>	<u>34.83314</u>
Area Moment (Normal to hinge line), FT^3	<u>526.125</u>	<u>0.00003</u>
Product of area and mean chord		

MODEL COMPONENT: U5 Interstage StructureGENERAL DESCRIPTION: The aft tie-downs that support the SRBs and the orbiter on the external tank.Scale Model = 0.004DRAWING NUMBER: V172-000061

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length			
Max. Width			
Max. Depth			
Fineness Ratio			
Area			
Max. Cross-Sectional			
Planform			
Wetted			
Base			

TABLE III. (Continued)

MODEL COMPONENT: S3 Booster Solid Rocket MotorGENERAL DESCRIPTION: 2A Configuration Per NR Lines VL77-000012 and
VL72-000061BBody of Revolution, Data for (1) of (2) SidesScale Model = .004DRAWING NUMBER: VL77-000012Data for (1) of (2) Sides
DIMENSIONS:

	<u>THEORETICAL</u>		<u>ACTUAL MEASUREMENT</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1758.00</u>	<u>7.032</u>	
Max. Width	<u>142.00</u>	<u>0.568</u>	
Max. Depth	<u>259.00</u>	<u>1.036</u>	
Fineness Ratio	<u>6.788</u>	<u>6.788</u>	
Area			
Max. Cross-Sectional	<u>109.978</u>	<u>0.00176</u>	
Planform			
Wetted			
Base	<u>365.870</u>	<u>0.00585</u>	

REF

FS (Orbiter) 0.00 = 751.0 in. ET = 202.0 BSRM

WP (BSRM) = 400 - 344.413 = 55.587 INFS

BP (Orbiter) 0.00 = 243.0 BSRM

TABLE III. (Continued).

MODEL COMPONENT: External Tank T9GENERAL DESCRIPTION: 2A Configuration Per NR Lines VL78-000018 and VL72-000061B;
Body of RevolutionScale Model = .004DRAWING NUMBER: VL78-000018

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1826.00</u>	<u>7.304</u>	<u> </u>
Max. Width	<u>324.00</u>	<u>1.296</u>	<u> </u>
Max. Depth	<u> </u>	<u> </u>	<u> </u>
Fineness Ratio	<u>6.13889</u>	<u>6.13889</u>	<u> </u>
Area			
Max. Cross-Sectional	<u>572.555</u>	<u>0.00916</u>	<u> </u>
Planform	<u> </u>	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>	<u> </u>
Base	<u>572.555</u>	<u>0.00916</u>	<u> </u>

REF

FS (Orbiter) 0.00 = TANK Station 635.0 INFS

WP (ET) = 400 - 344.413 = 55.587 INFS

BP (Orbiter) 0.00 = 0.00 ET

TABLE III. (Continued)

MODEL COMPONENT: External Tank T7GENERAL DESCRIPTION: 2A Configuration Per NR Lines VL78-000018 and VL72-000061B;
Body of RevolutionScale Model = .004DRAWING NUMBER: VL78-000018

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1989.00</u>	<u>7.956</u>	<u> </u>
Max. Width	<u>324.00</u>	<u>1.296</u>	<u> </u>
Max. Depth	<u> </u>	<u> </u>	<u> </u>
Fineness Ratio	<u>6.13889</u>	<u>6.13889</u>	<u> </u>
Area			
Max. Cross-Sectional	<u>572.555</u>	<u>0.00916</u>	<u> </u>
Planform	<u> </u>	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>	<u> </u>
Base	<u>572.555</u>	<u>0.00916</u>	<u> </u>

REF

FS (Orbiter) 0.00 = TANK Station 751.0 INFS

WP (ET) = 400 - 344.413 = 55.587 INFS

BP (Orbiter) 0.00 = 0.00 ET

TABLE III. (Continued)

MODEL COMPONENT: BODY - External Tank T₁₂GENERAL DESCRIPTION: Body of revolution with triconic nose

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1871.0</u>	<u>7.416</u>	<u> </u>
Max. Width	<u>324.0</u>	<u>1.296</u>	<u> </u>
Max. Depth	<u> </u>	<u> </u>	<u> </u>
Fineness Ratio	<u>5.774</u>	<u> </u>	<u> </u>
Area			
Max. Cross-Sectional	<u>572.555</u>	<u>0.00916</u>	<u> </u>
Planform	<u> </u>	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>	<u> </u>

TABLE III. (Concluded)

MODEL COMPONENT: BODY - External Tank T₁₃GENERAL DESCRIPTION: Body of revolution with quadraconic noseDRAWING NUMBER: 80M32610

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>		<u>ACTUAL MEASURED</u>
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1871.0</u>	<u>7.484</u>	<u> </u>
Max. Width	<u>324.0</u>	<u>1.296</u>	<u> </u>
Max. Depth	<u> </u>	<u> </u>	<u> </u>
Fineness Ratio	<u>5.774</u>	<u> </u>	<u> </u>
Area			
Max. Cross-Sectional	<u>572.555</u>	<u>0.00916</u>	<u> </u>
Planform	<u> </u>	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>	<u> </u>

TABLE IV. SPACER DESIGNATION

ITEM	SPACER NO.	TYPE	POSITION	i_o	Z	GAP	"D"	"A"	"B"
1	7	2	Front	+0.5	.136	.05	.100	.204	.200
2	8	2	Rear	+0.5	.136	.05	.100	.082	.200
3	9	1	Front	+0.5	.136	.05	.200	.204	.200
4	10	1	Rear	+0.5	.136	.05	.200	.082	.200
5	11	1	Front	+0.5	.136	.05	.300	.204	.200
6	12	1	Rear	+0.5	.136	.05	.300	.082	.200
7	13	1	Front	+0.5	.136	.10	.200	.154	.200
8	14	1	Rear	+0.5	.136	.10	.200	.032	.200
9	15	1	Front	+0.5	.272	.05	.200	.458	.200
10	16	1	Rear	+0.5	.272	.05	.200	.214	.200
11	17	1	Front	+1.5	.272	.05	.200	.521	.200
12	18	1	Front	-0.5	.272	.05	.200	.273	.200
13	19	1	Front	+1.5	.136	.05	.200	.267	.200
14	20	1	Front	-0.5	.136	.05	.200	.141	.200
15	21	3	Front	+0.5	.136	.05	.200	.204	.200
16	22	3	Rear	+0.5	.136	.05	.200	.082	.200

SEE FIGURE 16 FOR DEFINITION OF PARAMETERS

TABLE V. MODEL REFERENCE QUANTITIES

	<u>Full Scale</u>	<u>Model Scale</u>
1. Reference Area	2690 ft ²	6.198 in. ²
2. Reference Length	1328 in.	5.313 in.
3. Reference Span	1328 in.	5.313 in.
4. Base Areas		
Orbiter	427.8 ft ²	0.9857 in. ²
External Tank	572.55 ft ²	1.319 in. ²
SRB (one)	365.87 ft ²	0.843 in. ²
5. Balance Moment Center (from individual model nose)		
Orbiter		3.7 in.
External Tank		4.104 in.
SRB		4.202 in.
6. Moment Reference Center		
Orbiter	Orbiter nose on E.T. \bar{C}	
External Tank	Orbiter nose on E. T. \bar{C}	
SRB	Orbiter nose on S.R.B. \bar{C}	

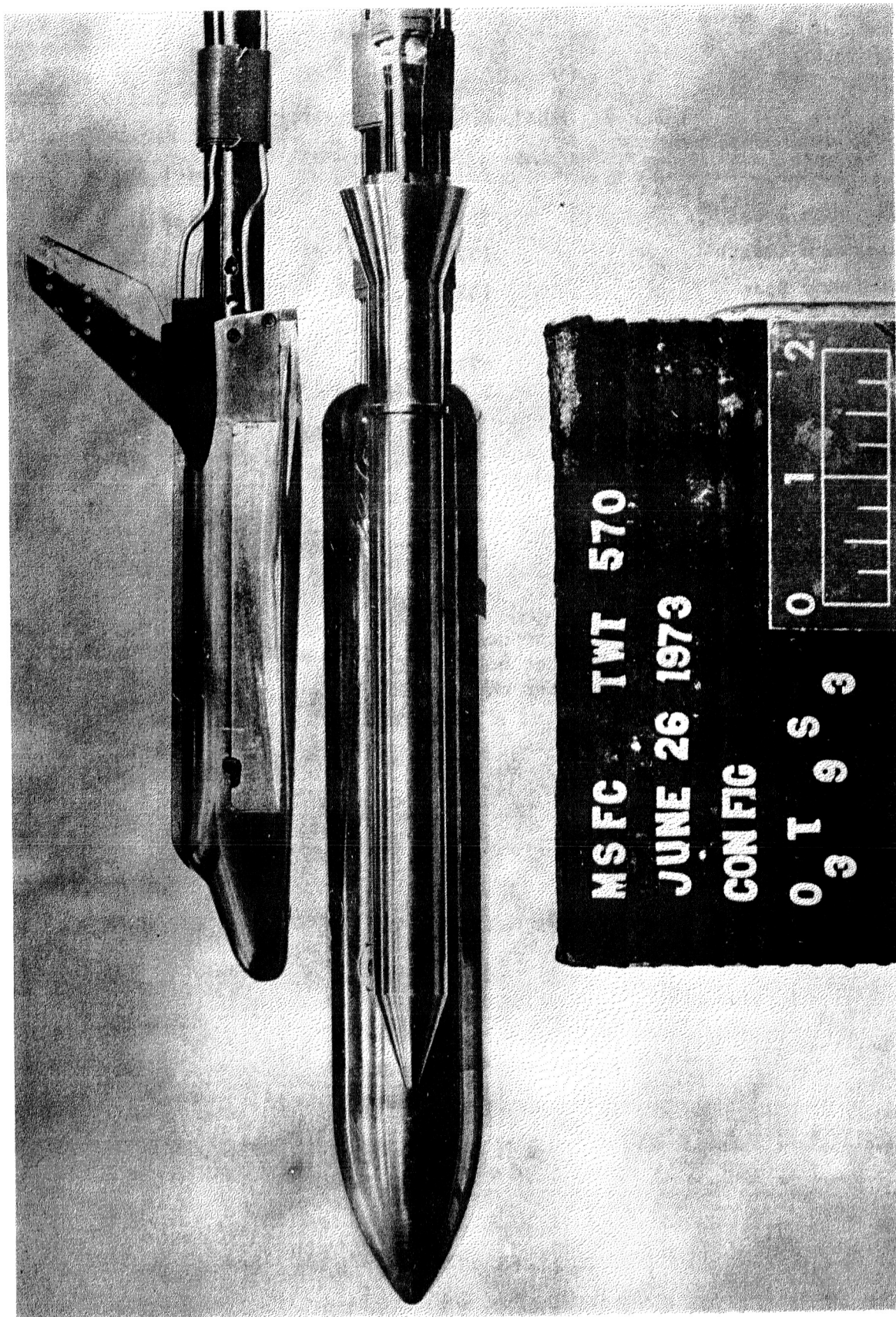


Figure 1. TYPICAL TUNNEL INSTALLATION OF BASIC CONFIGURATION

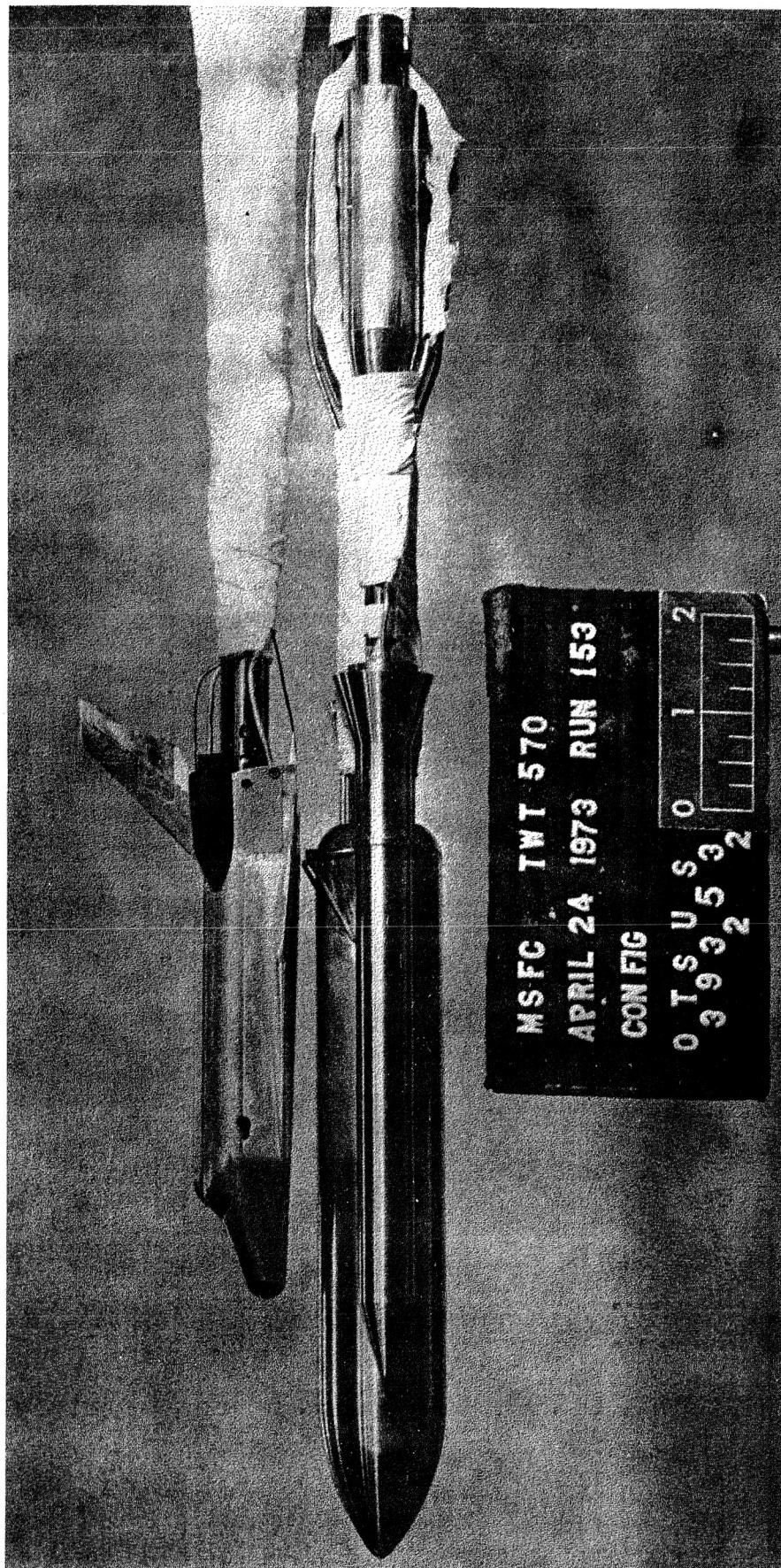


Figure 2. TYPICAL TUNNEL INSTALLATION OF BASIC CONFIGURATION WITH ATTACH HARDWARE

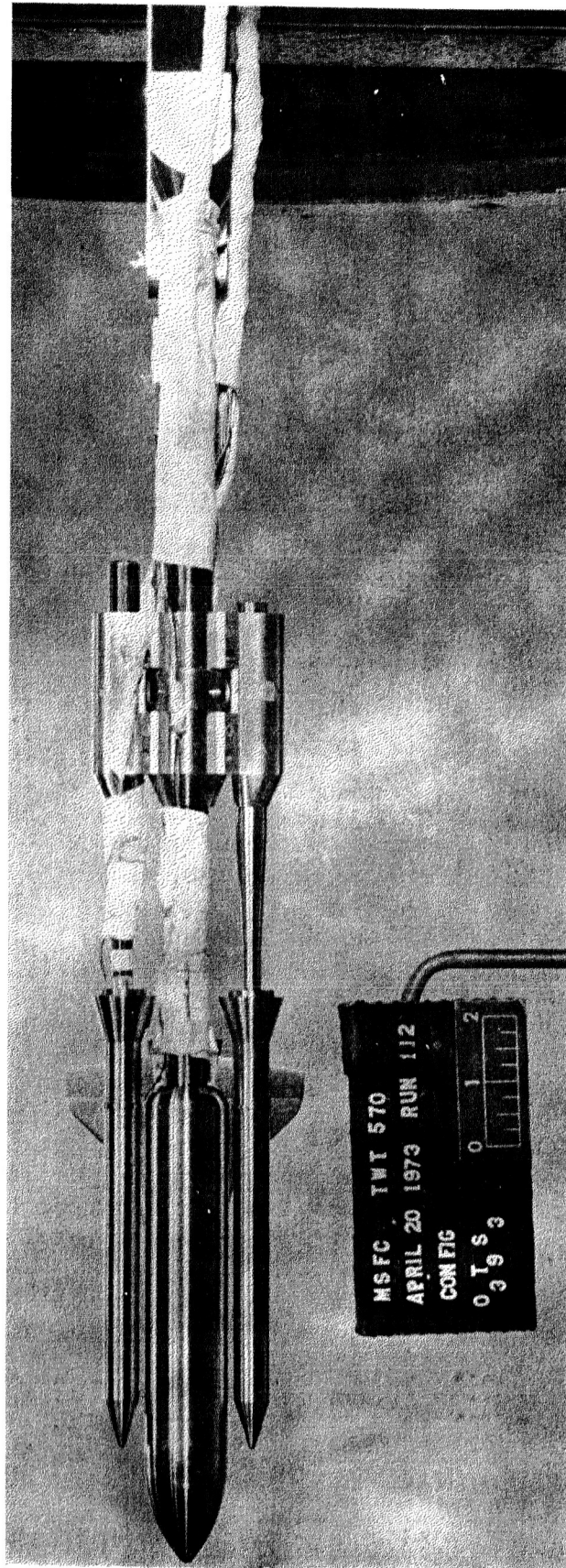


Figure 3. TUNNEL INSTALLATION OF BASIC CONFIGURATION ($\phi=90^\circ$)

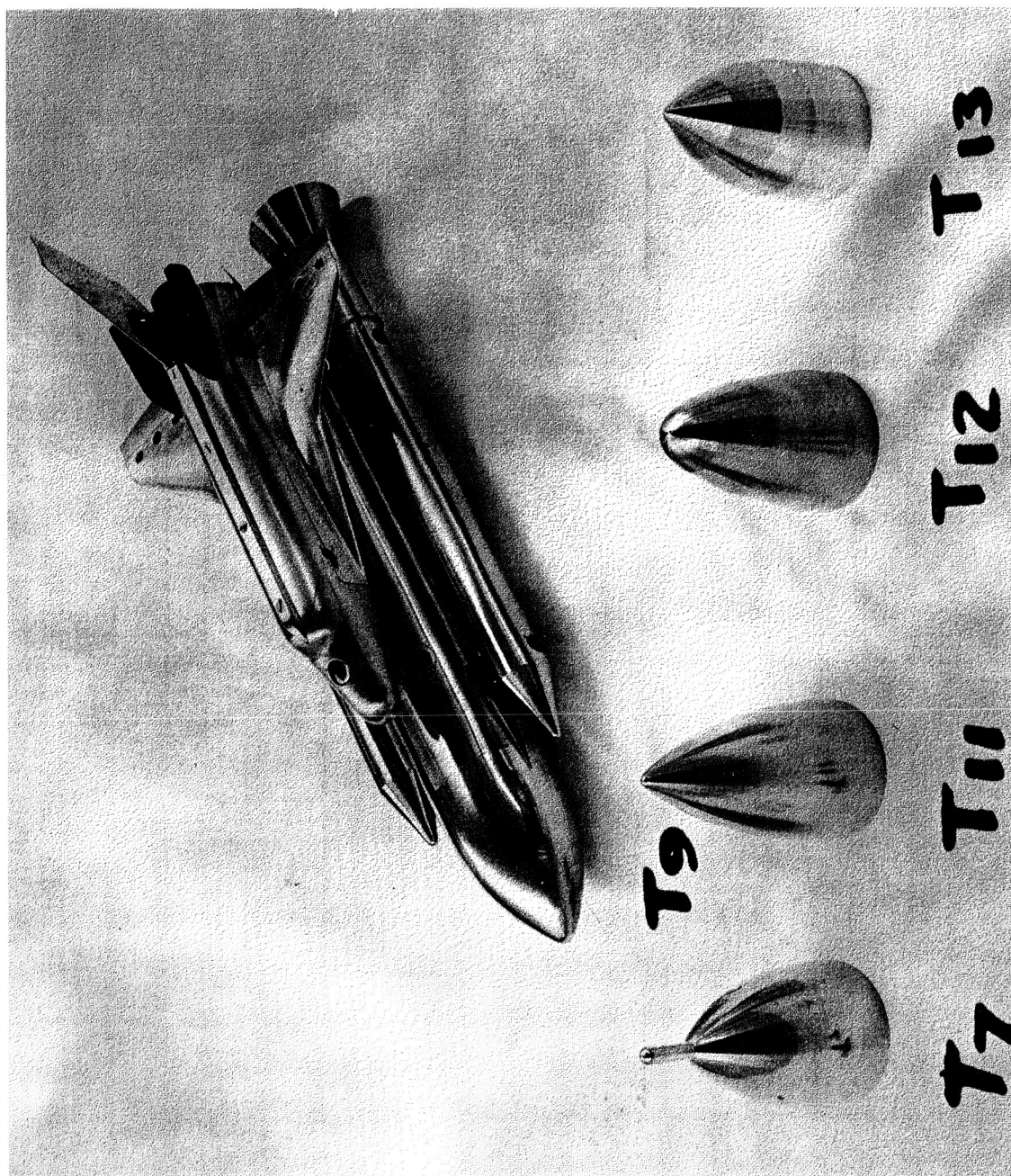


Figure 4. EXTERNAL TANK NOSE CONFIGURATIONS

ALL DIMENSIONS ARE INCHES MODEL SCALE

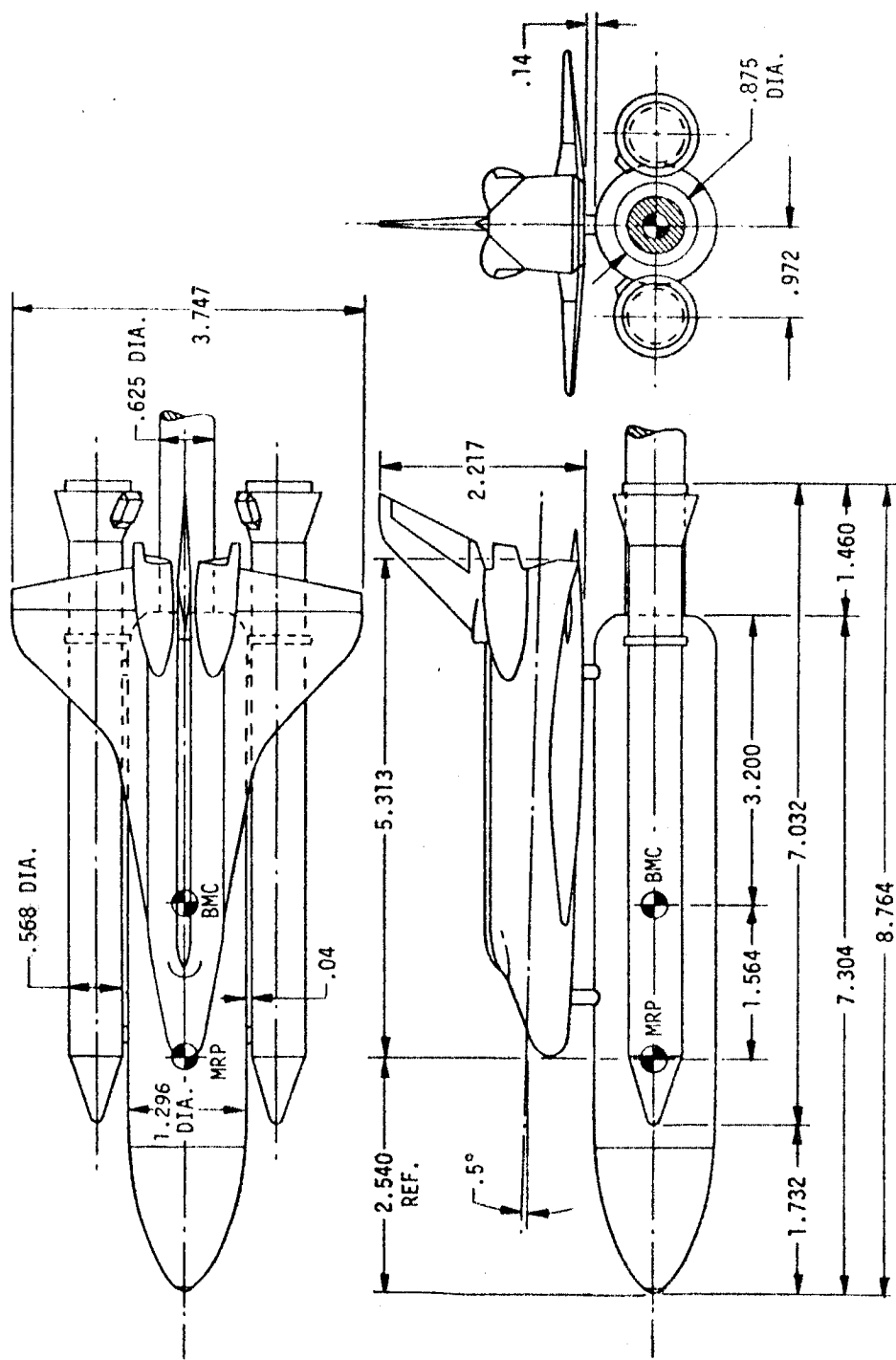


Figure 5. GENERAL ARRANGEMENT OF THE MODEL CONFIGURATION O₃T₉S₃

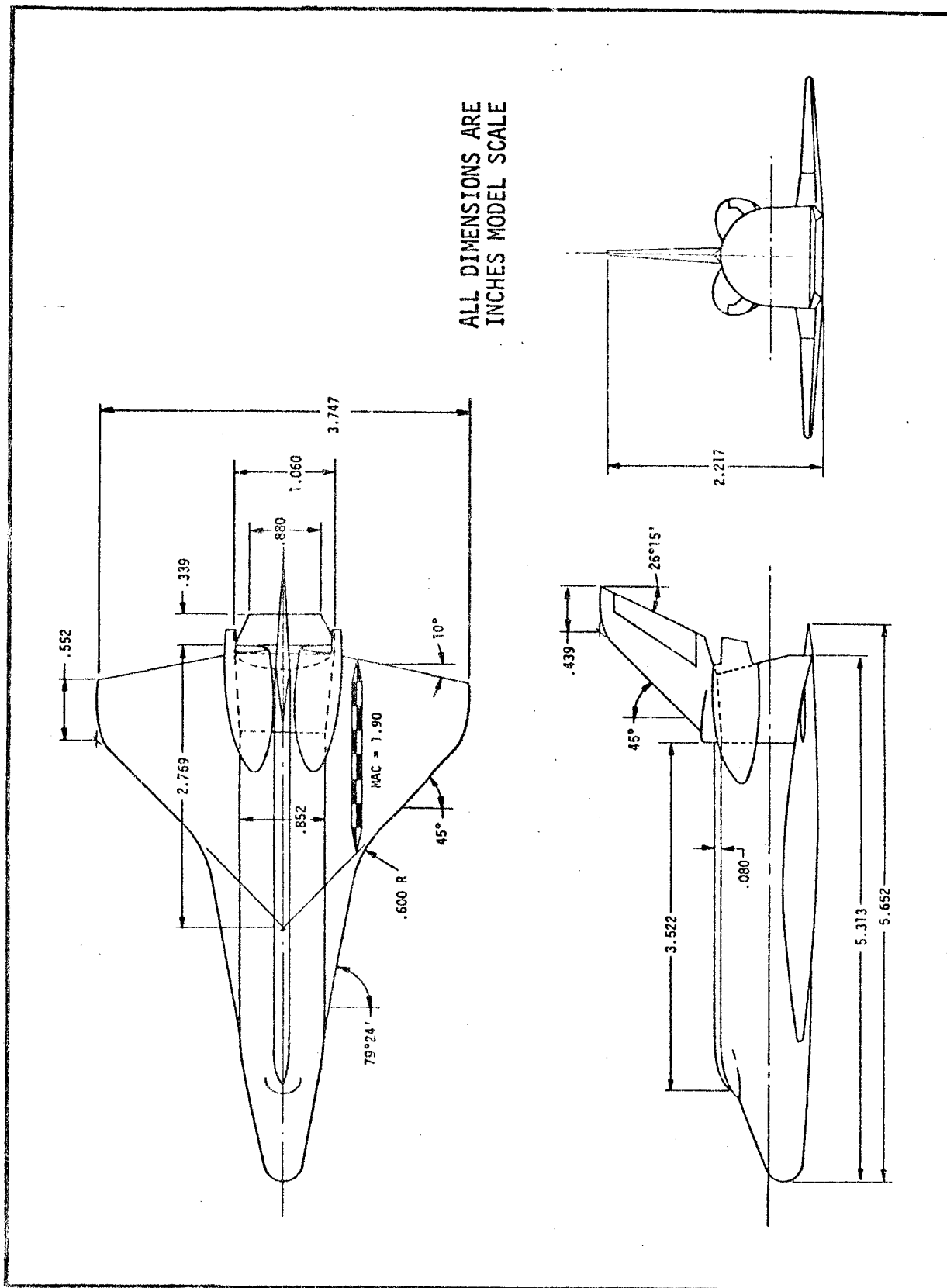
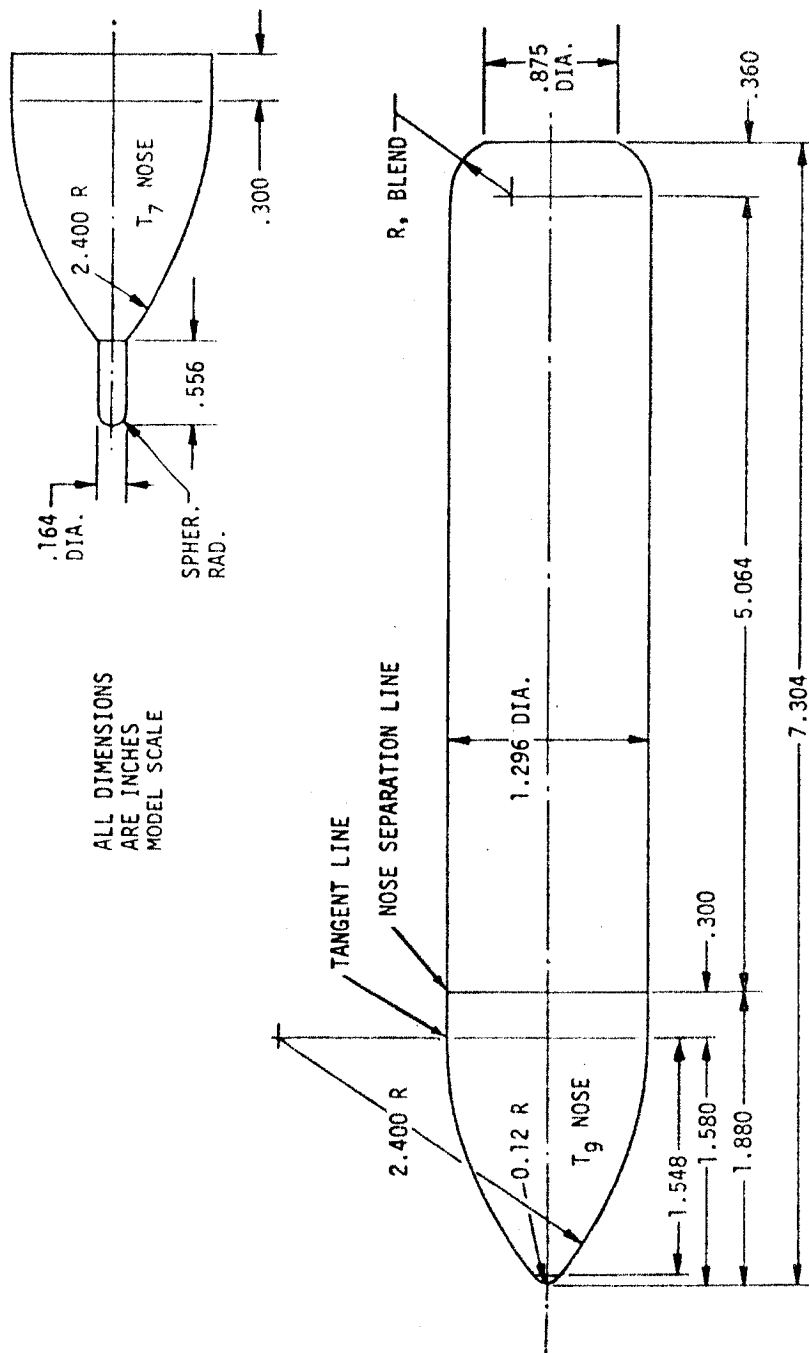


Figure 6. GENERAL ARRANGEMENT OF PRR ORBITER MODEL, 03



ALL DIMENSIONS
ARE INCHES
MODEL SCALE

Figure 7. GENERAL ARRANGEMENT OF THE EXTERNAL TANKS T₇ AND T₉

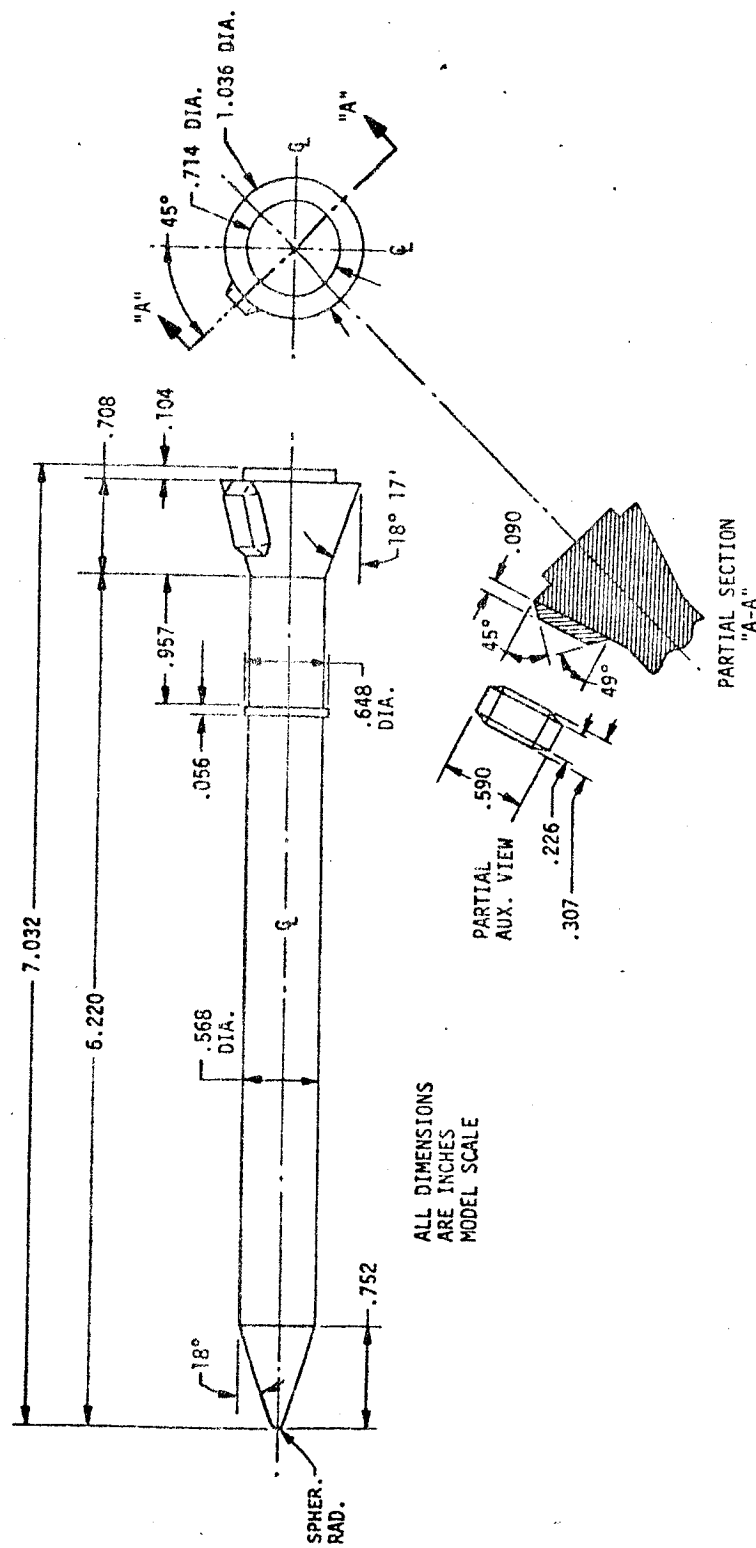


Figure 8. GENERAL ARRANGEMENT OF THE SRB, S₃

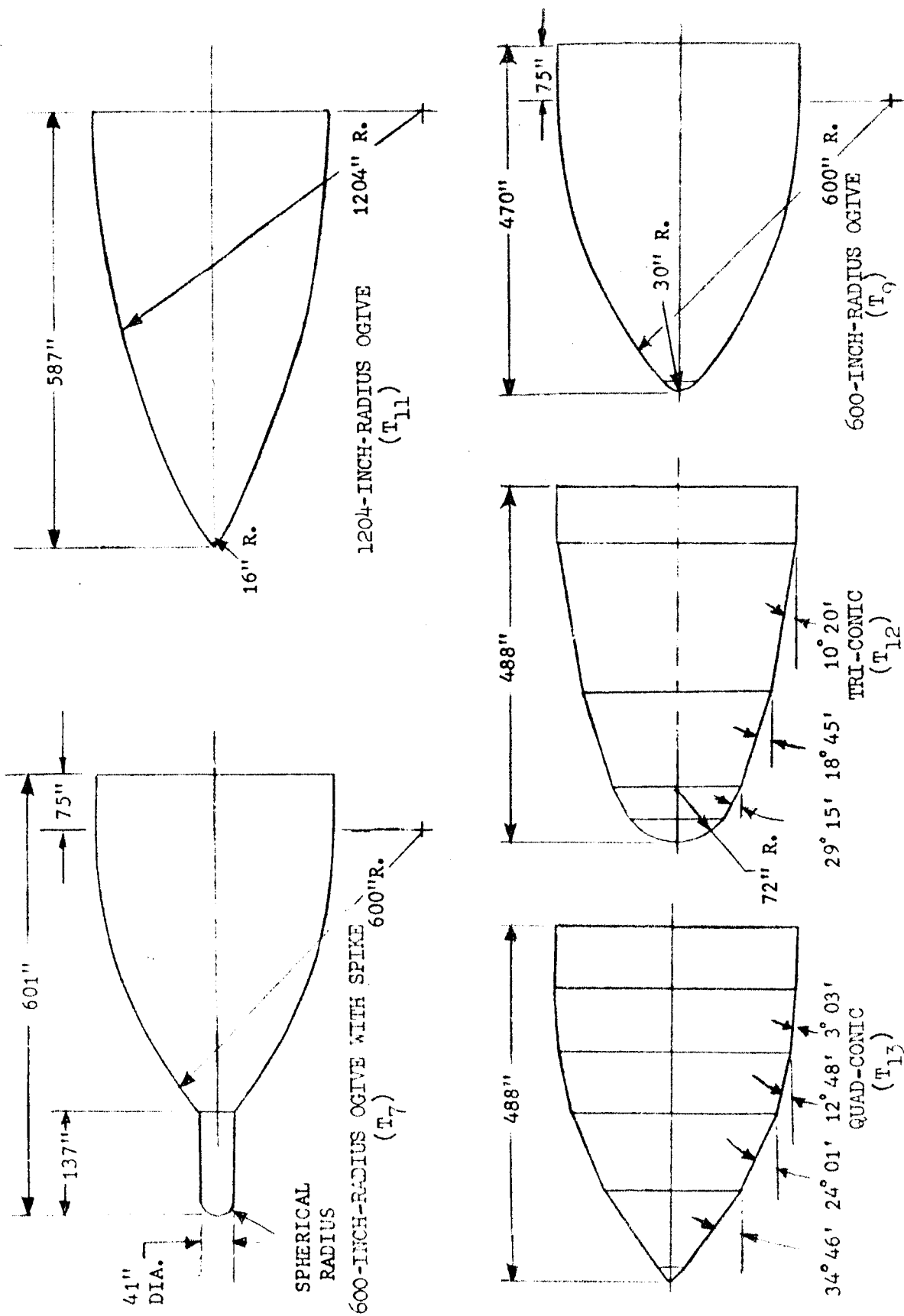


Figure 9. TANK NOSE SHAPES

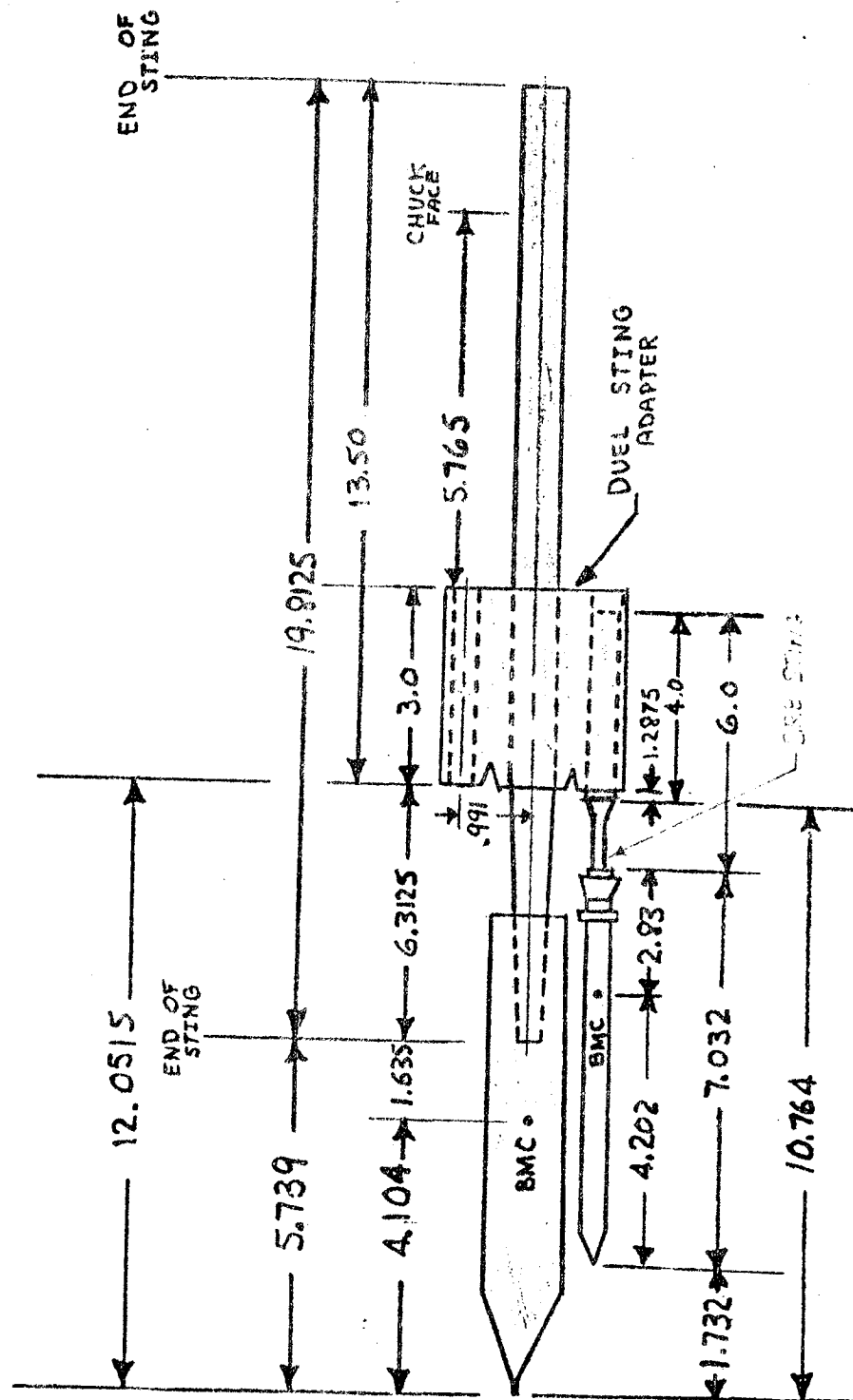
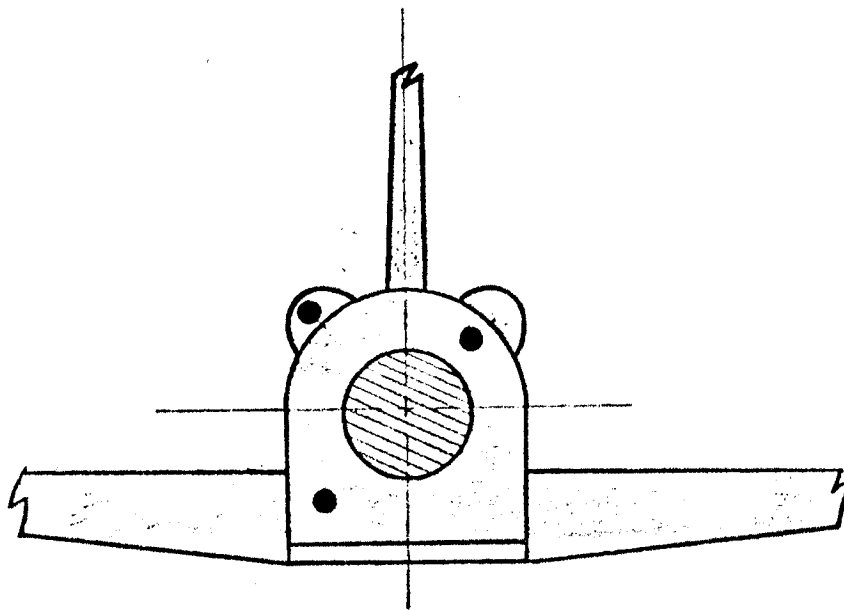


Figure 10. TANK AND SRB WITH SUPPORT HARDWARE



● — BASE PRESSURE MEASUREMENTS

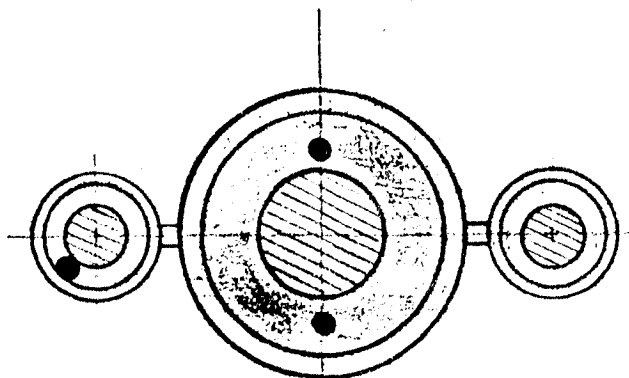


Figure 11. BASE PRESSURE PROBE LOCATIONS

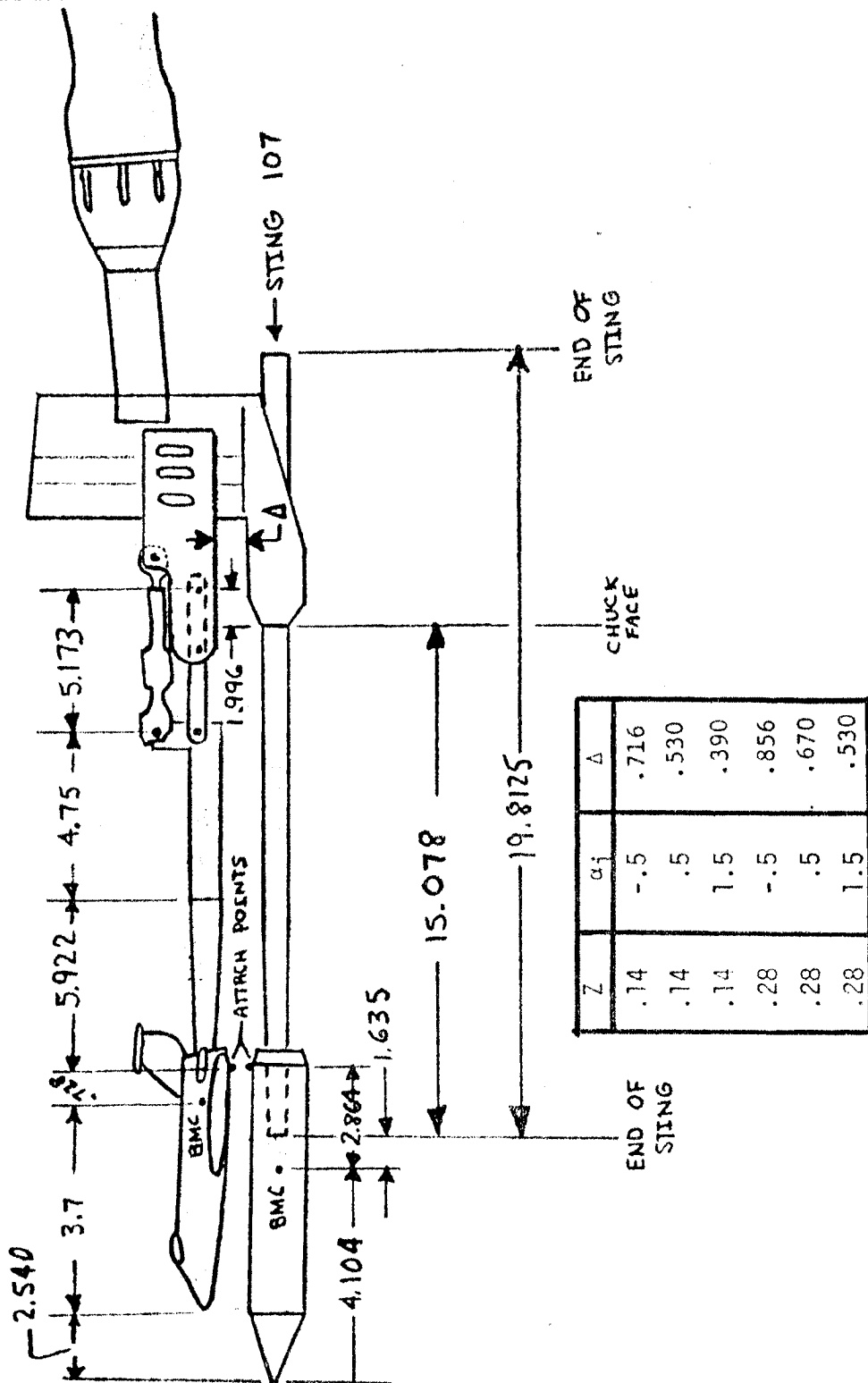


Figure 13. ORBITER AND TANK MODELS WITH SUPPORT HARDWARE

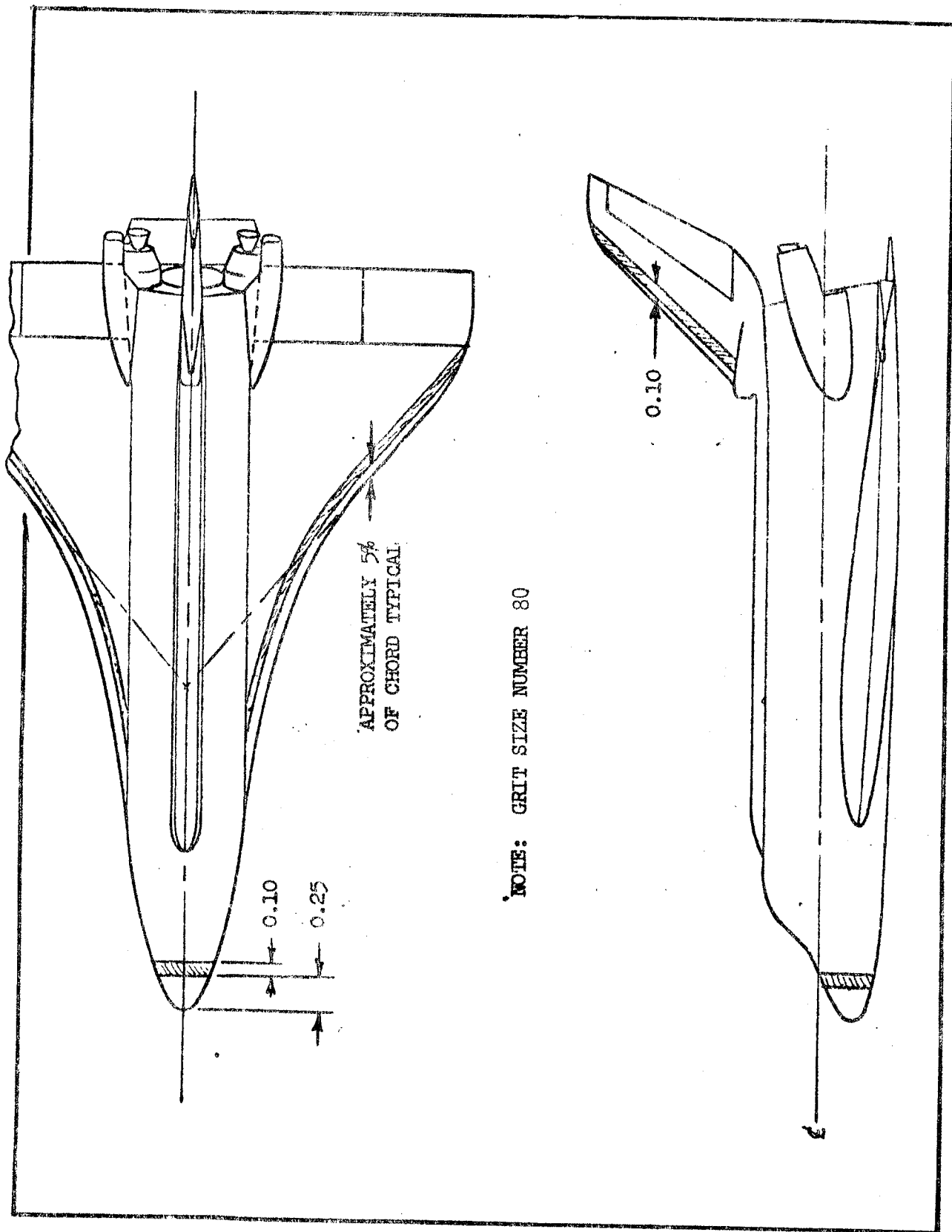


Figure 14. LOCATION OF GRIT ON ORBITER MODEL

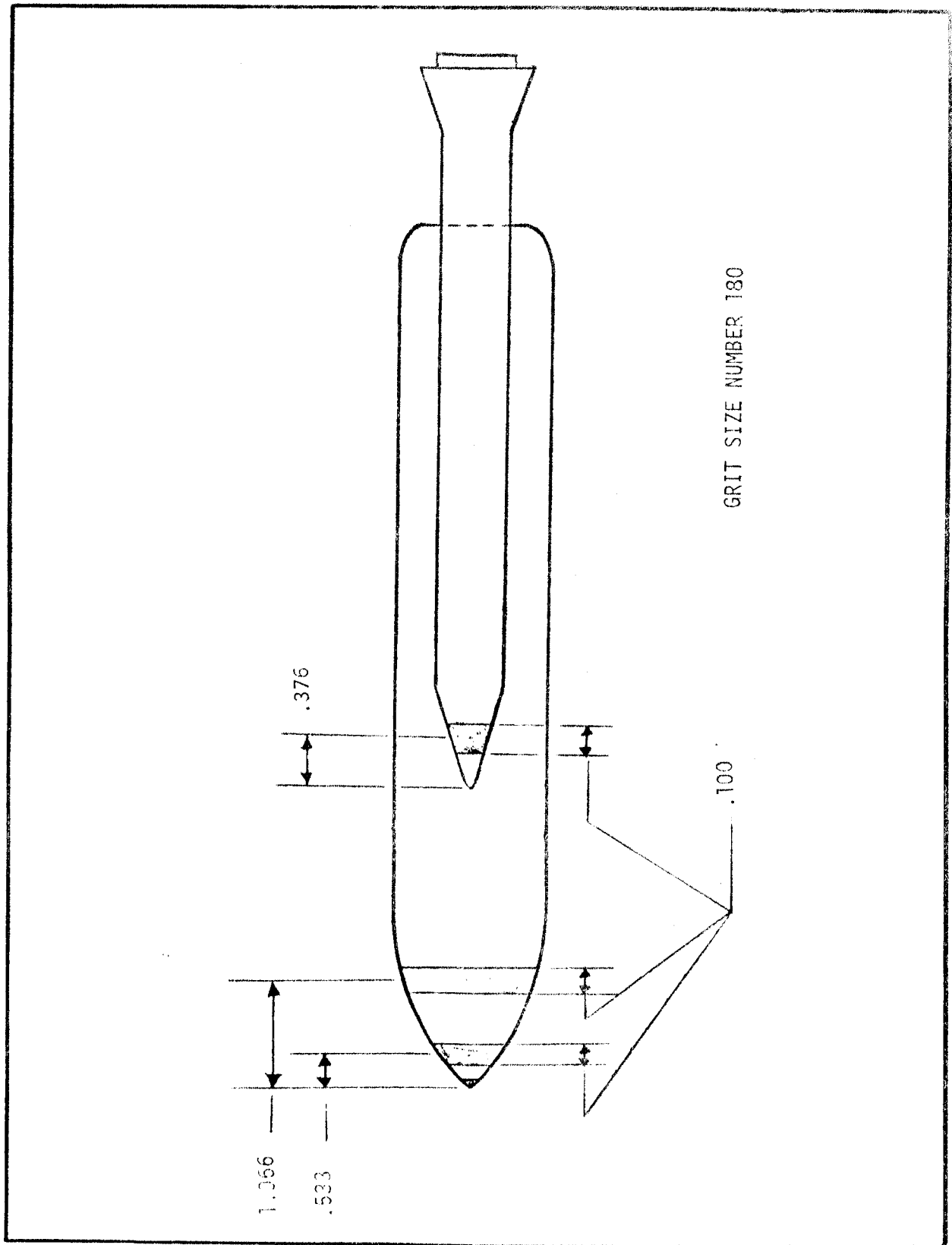


Figure 15. LOCATION OF GRIT ON SRB AND ET MODELS

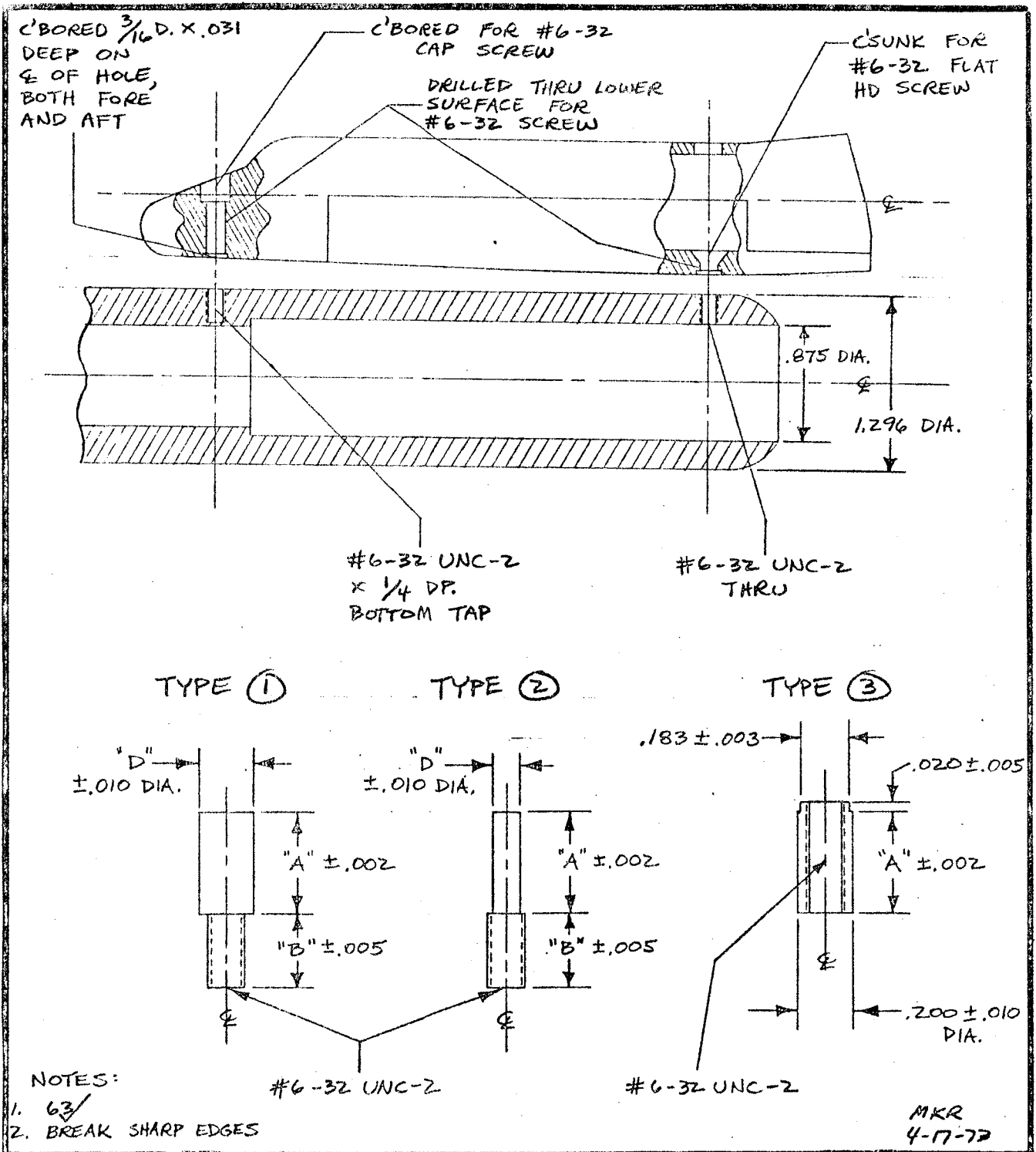


Figure 16. TYPICAL SPACER DIMENSIONS

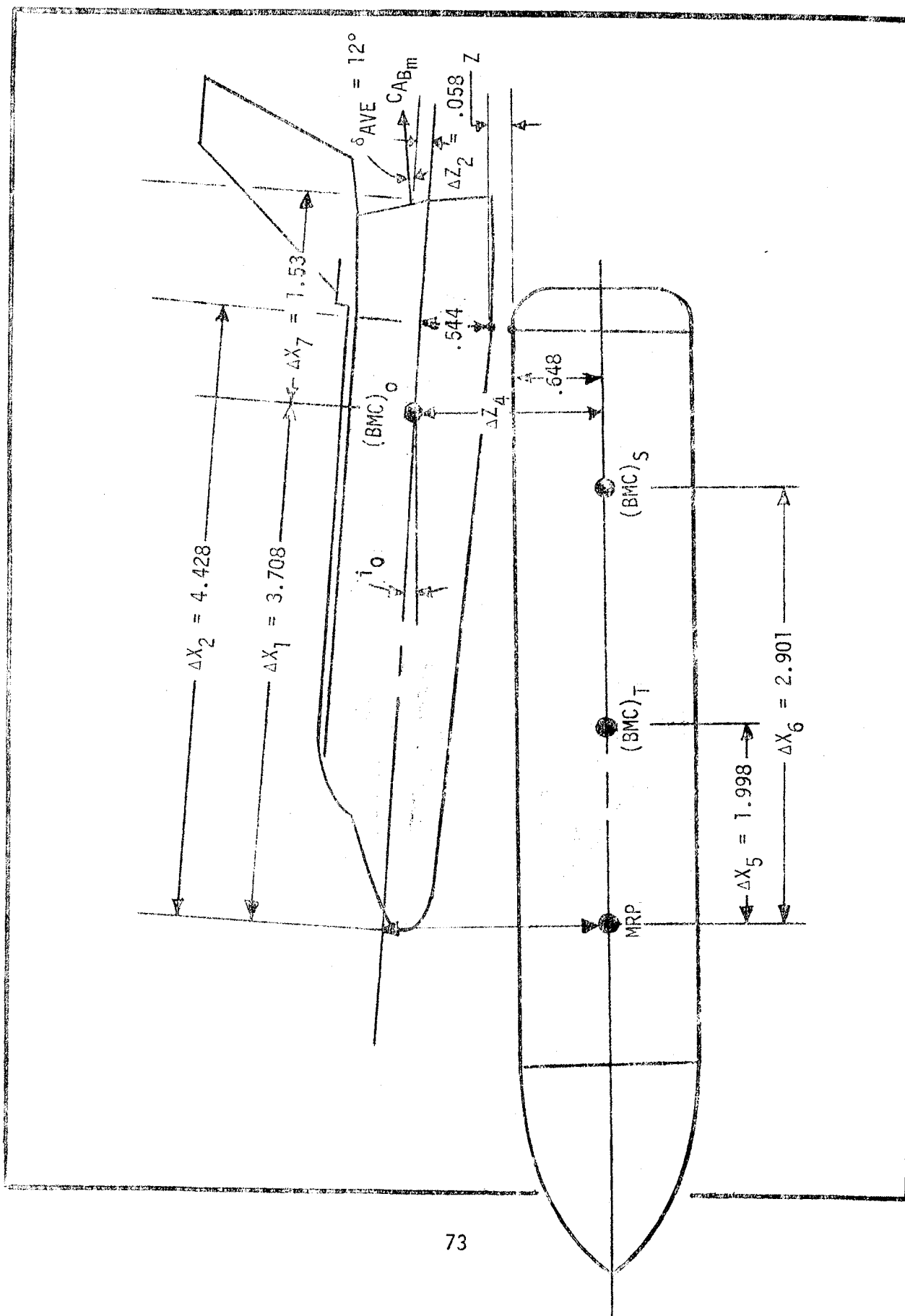


Figure 18. MOMENT TRANSFER INFORMATION

TABULATED SOURCE DATA

O	Orbiter
S	Left SRB
R	Right SRB
T	External Tank

Plotted data are available
from DMS on request.

DATE 03 NOV 74

TABULATED SOURCE DATA - MSFC 570

PAGE 1

MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R63021) (21 SEP 73)

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SER = .000 CRBINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1001/ 0 RNVL = 3.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.36880	.21630	-.01690	.01110	-.00110	.01030	.03280
.598	-8.000	-.29220	.20250	-.01160	.01030	-.00070	.01190	.03330
.598	-6.000	-.22830	.19970	-.01800	.01250	-.00160	.01640	.03280
.598	-5.000	-.19900	.14040	-.01320	.01350	-.00200	.01830	.03250
.598	-4.000	-.16960	.12000	-.01900	.01360	-.00190	.01970	.03290
.598	-2.000	-.10340	.07690	-.01910	.01360	-.00170	.01950	.03320
.598	.000	-.03460	.02840	-.01780	.01290	-.00120	.01970	.03290
.598	2.000	.04600	-.02760	-.01920	.01390	-.00160	.01730	.03320
.598	4.000	.12710	-.08500	-.02170	.01590	-.00210	.01360	.03290
.598	5.000	.16690	-.11340	-.02220	.01620	-.00210	.01140	.03220
.598	6.000	.20860	-.14290	-.02190	.01590	-.00180	.00960	.03190
.598	8.000	.29140	-.20190	-.02190	.01570	-.00210	.00190	.03270
.598	10.000	.37110	-.25970	-.02300	.01620	-.00370	-.00690	.03360
GRADIENT	.03683	-.02553	-.00029	.00025	-.00001	-.00065	-.00002	

RUN NO. 1002/ 0 RNVL = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.603	-10.000	-.37360	.26490	-.01950	.01330	-.00160	.01930	.03360
.603	-8.000	-.29780	.21020	-.01740	.01190	-.00120	.01920	.03390
.603	-6.000	-.21950	.15560	-.01780	.01280	-.00120	.02180	.03290
.603	-5.000	-.18330	.13080	-.01880	.01390	-.00130	.02290	.03260
.603	-4.000	-.15110	.10870	-.02000	.01450	-.00120	.02310	.03320
.603	-2.000	-.08910	.06690	-.02220	.01600	-.00240	.02430	.03300
.603	.000	-.01670	.01710	-.02220	.01610	-.00240	.02430	.03230
.603	2.000	.06930	-.04220	-.02170	.01590	-.00200	.02250	.03130
.603	4.000	.14880	-.09750	-.02080	.01500	-.00140	.01960	.03060
.603	5.000	.18500	-.12310	-.02020	.01450	-.00110	.01670	.03070
.603	6.000	.22330	-.15950	-.02030	.01460	-.00120	.01670	.03090
.603	8.000	.30090	-.20330	-.02040	.01480	-.00190	.01680	.03030
.603	10.000	.38240	-.26130	-.01990	.01460	-.00210	.01600	.02750
GRADIENT	.03731	-.02569	-.00010	.00005	.00001	-.00055	-.00026	

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBINC = -.000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1003/ 0 RW/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.000	-.36730	.26470	-.02090	.01900	-.00240	.02940	.03670
.999	-8.000	-.29360	.20410	-.02360	.01720	-.00370	.02790	.03610
.999	-6.000	-.20590	.14930	-.02630	.01930	-.00460	.03080	.03430
.999	-5.000	-.16920	.12420	-.02690	.01990	-.00460	.03190	.03420
.999	-4.000	-.13390	.10010	-.02610	.01930	-.00420	.03190	.03460
.999	-2.000	-.06360	.03240	-.02340	.01790	-.00360	.03290	.03470
.999	.000	.01420	-.00290	-.02130	.01630	-.00310	.03460	.03350
.999	2.000	.08610	-.05320	-.02230	.01700	-.00280	.03190	.03340
.999	4.000	.16260	-.10820	-.02100	.01620	-.00220	.02930	.03330
.999	5.000	.20330	-.13410	-.01970	.01530	-.00190	.02900	.03290
.999	6.000	.23820	-.15920	-.02100	.01570	-.00230	.02940	.03100
.999	8.000	.30620	-.20510	-.02250	.01620	-.00320	.02940	.03060
.999	10.000	.37390	-.25490	-.02170	.01560	-.00340	.02230	.03650
GRADIENT	.03724	.03724	-.02597	.00065	-.00042	.00025	-.00039	-.00015

RUN NO. 1004/ 0 RW/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.40770	.31230	-.01500	.01190	-.00190	.03170	.03370
1.049	-8.000	-.30480	.23370	-.01680	.01310	-.00220	.03330	.03260
1.049	-6.000	-.20490	.16240	-.01910	.01460	-.00240	.03590	.03150
1.049	-5.000	-.15920	.12990	-.01930	.01500	-.00250	.03930	.03120
1.049	-4.000	-.11740	.09790	-.01930	.01500	-.00240	.03930	.03120
1.049	-2.000	-.01960	.02470	-.01720	.01400	-.00270	.03920	.03100
1.049	.000	.07310	-.04250	-.01730	.01390	-.00290	.03920	.03000
1.049	2.000	.14390	-.09360	-.01820	.01430	-.00340	.03920	.02990
1.049	4.000	.20930	-.13410	-.01730	.01430	-.00360	.03920	.02940
1.049	5.000	.23810	-.15290	-.01680	.01390	-.00360	.03920	.02940
1.049	6.000	.26930	-.17300	-.01630	.01300	-.00370	.03720	.02190
1.049	8.000	.32930	-.21210	-.01590	.01290	-.00370	.03930	.02040
1.049	10.000	.37940	-.24780	-.01920	.01520	-.00350	.03490	.02100
GRADIENT	.04020	.04020	-.02860	.00012	-.00009	-.00013	-.00030	-.00074

MSFC 57D(1A31F)(C3)/(T9)/(S3/2)/(S3/2)

(R93551) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA	=	.000	CCAFIG	=	100.000
DELTAE	=	.140	PUDDER	=	.000
X-SRB	=	.000	CRSINC	=	-.000
SPACER	=	.000	SPADIA	=	.000
SPAGAP	=	.000			

RUN NO. 1005/ 0 RN/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.40340	.31670	-.01820	.01340	-.00330	.09210	.03910
1.248	-9.000	-.30790	.24330	-.01770	.01290	-.00340	.09050	.03960
1.248	-8.000	-.21200	.17120	-.01660	.01190	-.00350	.09160	.03970
1.248	-7.000	-.16690	.13750	-.01600	.01150	-.00340	.09210	.03960
1.248	-6.000	-.12340	.10310	-.01540	.01130	-.00320	.09230	.03950
1.248	-5.000	-.08020	.06840	-.01340	.00990	-.00260	.09350	.03950
1.248	-4.000	-.04130	.03740	-.01310	.00960	-.00270	.09390	.04010
1.248	-3.000	-.02390	.02460	-.01390	.01040	-.00340	.09360	.04060
1.248	-2.000	-.01660	.01590	-.01440	.01110	-.00360	.09190	.04320
1.248	-1.000	-.00810	.00870	-.01460	.01150	-.00370	.09070	.03970
1.248	0.000	.00000	.00000	-.01400	.01110	-.00460	.09140	.03970
1.248	1.000	.00870	.00870	-.01600	.01290	-.00630	.07910	.03990
1.248	2.000	.01660	.01660	-.02150	.01760	-.00760	.06930	.04460
1.248	3.000	.02390	.02390	-.02511	.00900	-.00900	.06011	.05000
GRADIENT								

RUN NO. 1036/ 0 RVL = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.460	-10.000	-3.6750	.29450	-.02370	.01700	-.00680	.09290	.03110
1.460	-9.000	-.29680	.23990	-.02270	.01670	-.00660	.09120	.03070
1.460	-6.000	-.21800	.17930	-.02220	.01630	-.00570	.09080	.03110
1.460	-5.000	-.17800	.14740	-.02200	.01620	-.00550	.09010	.03090
1.460	-4.000	-.13790	.11670	-.02180	.01600	-.00540	.08990	.03020
1.460	-2.000	-.05750	.05550	-.02070	.01350	-.00480	.09790	.02990
1.460	.000	.03660	-.01590	-.01990	.01460	-.00450	.08710	.02990
1.460	2.000	.12900	-.08160	-.02100	.01550	-.00520	.08840	.03010
1.460	4.000	.21400	-.14210	-.02010	.01500	-.00510	.09020	.03120
1.460	5.000	.25550	-.17200	-.01890	.01410	-.00470	.08740	.03190
1.460	6.000	.29370	-.20130	-.01930	.01460	-.00490	.08690	.03240
1.460	8.000	.37070	-.25370	-.02030	.01550	-.00490	.08320	.03290
1.460	10.000	.43670	-.30390	-.02060	.01530	-.00270	.08310	.03290
GRADIENT		.04367	-.03229	.00024	-.00015	.00003	-.00011	.00010

MSFC 570(1A31F)(03)/(T9)/(S3/2)/(S3/2)

(R03001) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SEP = .000 ORBITAL = -.500
 SPACER = .000 SPACIA = .000
 SPAGAP = .000

RUN NO. 1037/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAD
1.959	-10.000	-1.2750	.23200	-.01920	.01350	-.00590	.10940	.02300
1.959	-8.000	-.21350	.19190	-.01650	.01240	-.00320	.10090	.03140
1.959	-6.000	-.17010	.14810	-.01490	.01190	-.00460	.09720	.02210
1.959	-5.000	-.14910	.13130	-.01470	.01160	-.00440	.09520	.02290
1.959	-4.000	-.12730	.11370	-.01470	.01150	-.00440	.09350	.02360
1.959	-2.000	-.07700	.07440	-.01390	.01070	-.00350	.09090	.02420
1.959	.000	-.01320	.02680	-.01250	.00970	-.00290	.09190	.02310
1.959	2.000	.05770	-.02720	-.01320	.01020	-.00300	.09100	.02390
1.959	4.000	.13590	-.09690	-.01290	.01010	-.00290	.09040	.02490
1.959	5.000	.17390	-.11570	-.01220	.00970	-.00260	.09720	.02510
1.959	6.000	.20480	-.13990	-.01190	.00930	-.00230	.09610	.02530
1.959	8.000	.26470	-.19700	-.01170	.00910	-.00230	.09440	.02690
1.959	10.000	.32220	-.23310	-.01250	.00970	-.00310	.09290	.02710
GRADIENT		.03264	-.02499	.00023	-.00019	.00019	-.00055	.00019

RUN NO. 1060/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAD
2.990	-10.000	-1.12750	.11070	-.01690	.01170	-.00520	.11960	.01230
2.990	-8.000	-.10960	.09700	-.01410	.00990	-.00430	.11070	.01350
2.990	-6.000	-.08580	.07990	-.01220	.00890	-.00390	.10220	.01400
2.990	-5.000	-.07460	.07130	-.01140	.00840	-.00360	.09910	.01420
2.990	-4.000	-.06610	.06390	-.01090	.00790	-.00330	.09400	.01430
2.990	-2.000	-.04400	.04700	-.00960	.00730	-.00290	.09700	.01470
2.990	.000	-.02330	.03010	-.00970	.00690	-.00260	.09160	.01490
2.990	2.000	.01210	.00320	-.00750	.00590	-.00230	.07650	.01470
2.990	4.000	.05120	-.02650	-.00670	.00540	-.00190	.07230	.01470
2.990	5.000	.06760	-.03960	-.00660	.00540	-.00160	.07030	.01450
2.990	6.000	.08070	-.05020	-.00640	.00520	-.00160	.06910	.01450
2.990	8.000	.10470	-.06690	-.00670	.00520	-.00160	.06400	.01460
2.990	10.000	.12510	-.08700	-.00790	.00590	-.00170	.06040	.01470
GRADIENT		.01456	-.01116	.00030	-.00031	.00019	-.00274	.00004

MSFC 57D(1A31F)(C3)/(T9)/(S3/2)/(S3/2)

(R03C01) (21 SEP 73)

REFERENCE DATA

XREF = 6.1900 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA =	.000	CONFIG =	100.000
DELTAZ =	.140	RUDDER =	.000
X-SRG =	.000	CGPINC =	-.500
SPACER =	.000	SPADIA =	.000
SPAGAP =	.000		

RUN NO. 1039/ 0 RV/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CT	CYN	CBL	CAF	CAB
3.480	-10.000	-10.450	.08850	-.01330	.00910	-.00410	.12080	.00860
3.480	-8.000	-9.040	.07780	-.01320	.00900	-.00370	.11280	.00990
3.480	-6.000	-0.730	.06660	-.00990	.00730	-.00250	.10270	.01090
3.480	-3.000	.0630	.06050	-.00880	.00670	-.00230	.09780	.01120
3.480	-4.000	-.03770	.05490	-.00870	.00670	-.00230	.09260	.01120
3.480	-2.000	-.04110	.04230	-.00830	.00650	-.00230	.08440	.01110
3.480	.000	-.02290	.02830	-.00660	.00340	-.00190	.07830	.01110
3.480	2.000	.00160	.00910	-.00500	.00480	-.00170	.07310	.01160
3.480	4.000	.02970	-.01300	-.00600	.00490	-.00160	.06870	.01140
3.480	5.000	.04320	-.02360	-.00600	.00300	-.00160	.06550	.01120
3.480	6.000	.03640	-.03380	-.00600	.00480	-.00150	.06430	.01110
3.480	8.000	.07830	-.05110	-.00560	.00450	-.00140	.05960	.01120
3.480	10.000	.09240	-.06310	-.00510	.00430	-.00090	.05460	.01130
GRADIENT		.01086	-.00844	.00033	-.00021	.00009	-.00004	.00002

RUN NO. 1058/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CEL	CAF	CAS
4.960	-10.000	-0.7920	.06600	-.00800	.00650	-.00330	.11430	.00190
4.960	-8.000	-.09050	.06700	-.00750	.00600	-.00160	.11120	.00320
4.960	-6.000	-.06700	.05660	-.00540	.00430	-.00130	.09960	.00380
4.960	-5.000	-.06020	.05120	-.00480	.00410	-.00140	.09390	.00400
4.960	-4.960	-.05680	.04800	-.00390	.00480	-.00190	.09970	.00410
4.960	-2.000	-.04310	.03860	-.00630	.00310	-.00200	.08140	.00410
4.960	.000	-.03190	.02830	-.00530	.00450	-.00190	.07410	.00430
4.960	2.000	-.00540	.00940	-.00340	.00340	-.00120	.06760	.00470
4.960	4.000	.01700	-.00670	-.00310	.00320	-.00110	.06190	.00470
4.960	5.000	.02450	-.01250	-.00340	.00330	-.00110	.05940	.00450
4.960	6.000	.03150	-.01940	-.00340	.00330	-.00100	.05540	.00460
4.960	.04440	-.03010	-.00260	-.00310	.00310	-.00030	.04750	.00500
4.960	.05540	-.04190	-.00100	-.00100	.00260	-.00120	.03950	.00500
GRADIENT	.00887	-.00662	.00027	-.00015	-.00007	-.00007	-.00349	.00007

REFERENCE DATA

SREF =
LREF =
9REF =
SCALE =

6.1940 SQ. IN. XMRP = 2.5490 IN.
3.3130 IN. YMRP = .0000 IN.
3.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFIC = 100.000
DELTAZ = .140 RUDDER = .000
X-SF9 = .000 LADING = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1020/ 0 RM/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.599	-10.000	-31680	.22180	-.01590	.01060	-.00140	.00970	.03140
.599	-8.000	-24700	.17270	-.01540	.01060	-.00090	.01210	.03230
.599	-6.000	-19530	.13270	-.01480	.01100	-.00060	.01310	.03230
.599	-4.000	-15610	.11400	-.01510	.01140	-.00090	.01420	.03190
.599	-2.000	-12870	.09350	-.01640	.01200	-.00140	.01370	.03170
.599	-2.000	-06150	.04940	-.01630	.01220	-.00120	.01990	.03240
.599	.000	.01420	-.00310	-.01740	.01310	-.00140	.01990	.03230
.599	2.000	.09130	-.05840	-.01930	.01340	-.00130	.01420	.03270
.599	4.000	.17380	-.11380	-.01870	.01390	-.00130	.01390	.03240
.599	5.000	.21680	-.14390	-.01940	.01440	-.00130	.01130	.03290
.599	6.000	.25780	-.17330	-.02030	.01530	-.00160	.00810	.03310
.599	8.000	.34430	-.23590	-.02170	.01650	-.00150	.00470	.03330
.599	10.000	.43660	-.30300	-.02140	.01700	-.00030	.00370	.03320
GRADIENT		.03755	-.02394	-.00034	.00027	-.00002	-.00064	.00010

RUN NO. 1019/ 0 RM/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.798	-10.000	-32390	.23110	-.02420	.01640	-.00340	.01430	.03420
.798	-8.000	-24950	.17550	-.02400	.01680	-.00360	.01770	.03320
.798	-6.000	-17440	.12630	-.02220	.01510	-.00260	.02080	.03390
.798	-4.000	-14190	.10410	-.02230	.01600	-.00240	.02190	.03390
.798	-2.000	-11200	.08390	-.02310	.01670	-.00260	.02260	.03290
.798	.000	-04150	.03670	-.02320	.01700	-.00290	.02370	.03310
.798	.000	.03360	-.01690	-.02300	.01720	-.00240	.02370	.03290
.798	2.000	.11290	-.07120	-.02390	.01740	-.00290	.02130	.03310
.798	4.000	.19300	-.12640	-.02450	.01800	-.00250	.01440	.03190
.798	5.000	.23340	-.15420	-.02450	.01800	-.00230	.01810	.03100
.798	6.000	.27400	-.18280	-.02490	.01840	-.00220	.01430	.03130
.798	8.000	.34970	-.23610	-.02460	.01820	-.00240	.01960	.03230
.798	10.000	.41770	-.29370	-.02290	.01680	-.00320	.02170	.03330
GRADIENT		.03763	-.02603	-.00022	.00019	.00031	-.00043	-.00015



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (IASIF) (031)/(79)/(53/21)/(53/2)

(R53022) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CGNFIG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1018/ 0 RV/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.902	-10.000	-31320	.22840	-.02890	.02090	-.00610	.02520	.03900
.902	-8.000	-23230	.17040	-.03170	.02320	-.00700	.02740	.03650
.902	-6.000	-15740	.11890	-.02850	.02130	-.00550	.03130	.03480
.902	-5.000	-12100	.09360	-.02690	.02040	-.00500	.03290	.03440
.902	-4.000	-.09460	.06850	-.02640	.02020	-.00510	.03400	.03440
.902	-2.000	-.00970	.01330	-.02860	.02190	-.00590	.03520	.03470
.902	.000	.03970	-.03240	-.02850	.02180	-.00540	.03510	.03450
.902	2.000	.12840	-.07890	-.02520	.01940	-.00390	.03440	.03390
.902	4.000	.20150	-.12860	-.02280	.01720	-.00300	.03320	.03320
.902	5.000	.23880	-.15430	-.02220	.01660	-.00300	.03220	.03340
.902	6.000	.27630	-.19050	-.02290	.01720	-.00290	.03030	.03490
.902	8.000	.34660	-.22920	-.02200	.01660	-.00270	.03090	.03520
.902	10.000	.40940	-.27210	-.01730	.01290	-.00260	.03910	.03120
GRADIENT		.03377	-.02462	.00050	-.00040	.00025	-.00010	-.00013

RUN NO. 1016/ 0 RV/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.050	-10.000	-35510	.27590	-.01620	.01290	-.00220	.06060	.03410
1.050	-8.000	-.25020	.19840	-.01740	.01410	-.00250	.06290	.03320
1.050	-6.000	-.15720	.13000	-.01910	.01570	-.00250	.06740	.03210
1.050	-5.000	-.11310	.09790	-.01910	.01570	-.00260	.06940	.03200
1.050	-4.000	-.06960	.06630	-.01800	.01490	-.00270	.07060	.03220
1.050	-2.000	.02550	-.00360	-.01750	.01420	-.00330	.07220	.03150
1.050	.000	.11870	-.07170	-.01600	.01310	-.00330	.07130	.03090
1.050	2.000	.18990	-.12100	-.01740	.01410	-.00360	.06930	.02920
1.050	4.000	.25240	-.16140	-.01800	.01460	-.00370	.06400	.02590
1.050	5.000	.28310	-.19110	-.01760	.01440	-.00360	.06200	.02460
1.050	6.000	.31310	-.20090	-.01810	.01480	-.00340	.06010	.02470
1.050	8.000	.36580	-.23540	-.01830	.01460	-.00340	.05990	.02440
1.050	10.000	.40890	-.26310	-.01670	.01290	-.00400	.05460	.02290
GRADIENT		.03998	-.02822	.00008	-.00009	-.00011	-.00079	-.00074

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBLING = .500
 SPACER = .000 SPADIA = .000
 SPASAP = .000

RUN NO. 1017/ 0 RNVL = 6.73 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.249	-10.000	-3.4600	.27590	-.01920	.01410	-.00400	.07770	.04000
1.249	-8.000	-.24770	.20120	-.01800	.01300	-.00400	.07450	.03970
1.249	-6.000	-.15570	.13260	-.01750	.01260	-.00410	.06140	.03370
1.249	-5.000	-.11030	.09900	-.01710	.01250	-.00400	.06310	.03370
1.249	-4.000	-.06440	.06500	-.01640	.01190	-.00380	.06460	.03970
1.249	-2.000	.03340	-.00700	-.01510	.01120	-.00320	.06530	.03960
1.249	.000	.12760	-.07590	-.01410	.01040	-.00290	.06700	.03960
1.249	2.000	.20300	-.12830	-.01400	.01050	-.00330	.06770	.03970
1.249	4.000	.29260	-.18370	-.01500	.01170	-.00400	.06780	.04030
1.249	5.000	.32330	-.21240	-.01600	.01270	-.00420	.06730	.04090
1.249	6.000	.36270	-.24020	-.01770	.01390	-.00340	.06550	.04040
1.249	8.000	.41740	-.27760	-.01960	.01540	-.00350	.06420	.04130
1.249	10.000	.44140	-.29120	-.01860	.01500	-.00360	.06160	.04250
	GRADIENT	.04328	-.03105	.00015	-.00001	-.00002	.00041	.00010

RUN NO. 1034/ 0 RNVL = 6.32 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.461	-10.000	-.31290	.25590	-.02270	.01660	-.00610	.09020	.02990
1.461	-8.000	-.24890	.20460	-.02240	.01690	-.00660	.08900	.03060
1.461	-6.000	-.17090	.14490	-.02220	.01660	-.00590	.08950	.03020
1.461	-5.000	-.13070	.11400	-.02170	.01620	-.00540	.08900	.02990
1.461	-4.000	-.09050	.08300	-.02090	.01570	-.00520	.08900	.02960
1.461	-2.000	-.00150	.01590	-.02010	.01490	-.00460	.08970	.02840
1.461	.000	.09170	-.03370	-.01920	.01420	-.00440	.09010	.02860
1.461	2.000	.19320	-.11930	-.01920	.01440	-.00450	.09190	.02890
1.461	4.000	.26600	-.17670	-.02030	.01540	-.00320	.09280	.02990
1.461	5.000	.30540	-.20490	-.02100	.01590	-.00340	.09290	.03030
1.461	6.000	.34970	-.23490	-.02150	.01630	-.00340	.09390	.02990
1.461	8.000	.42530	-.28920	-.02170	.01660	-.00300	.09440	.02940
1.461	10.000	.48560	-.33390	-.02070	.01570	-.00390	.09300	.03100
	GRADIENT	.04416	-.03224	.00009	-.00004	.00000	.00044	.00004

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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (C3) / (T9) / (S3/2) / (S3/2)

(R83C02) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1039/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.000	-.22210	.19610	-.01720	.01240	-.00590	.10590	.02150
1.966	-9.000	-.17070	.15340	-.01600	.01200	-.00440	.09890	.02260
1.966	-8.000	-.12170	.11410	-.01480	.01130	-.00450	.09360	.02410
1.966	-7.000	-.09850	.09590	-.01430	.01100	-.00440	.09190	.02440
1.966	-6.000	-.07590	.07830	-.01390	.01070	-.00420	.09050	.02420
1.966	-5.000	-.05420	.05840	-.01330	.01040	-.00350	.08760	.02410
1.966	-4.000	-.03730	.03960	-.01340	.01020	-.00330	.08700	.02360
1.966	-3.000	-.02000	.02630	-.01330	.01000	-.00290	.08930	.02310
1.966	-2.000	-.01030	.01720	-.01350	.01030	-.00270	.09370	.02340
1.966	-1.000	.00000	.00000	-.01350	.01040	-.00270	.09090	.02390
1.966	0.000	.00000	.00000	-.01350	.01000	-.00260	.09160	.02510
1.966	1.000	.00000	.00000	-.01230	.00930	-.00250	.09140	.02720
1.966	2.000	.00000	.00000	-.01250	.00910	-.00270	.09460	.02950
1.966	3.000	.00000	.00000	-.00906	-.00906	.00017	-.00001	-.00009

RUN NO. 1055/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.08420	.07940	-.01390	.01030	-.00420	.11720	.01230
2.990	-9.000	-.07250	.07010	-.01290	.00950	-.00400	.10950	.01340
2.990	-8.000	-.05650	.05920	-.01240	.00920	-.00380	.10100	.01390
2.990	-7.000	-.04690	.05090	-.01200	.00890	-.00370	.09700	.01410
2.990	-6.000	-.03620	.04270	-.01160	.00840	-.00380	.09340	.01410
2.990	-5.000	-.02190	.02320	-.00950	.00720	-.00300	.08700	.01450
2.990	-4.000	-.01110	.00780	-.00730	.00560	-.00230	.08160	.01470
2.990	-3.000	.00000	.00000	-.00730	.00590	-.00220	.07740	.01460
2.990	-2.000	.00000	.00000	-.00740	.00580	-.00200	.07360	.01450
2.990	-1.000	.00000	.00000	-.00710	.00550	-.00190	.07170	.01450
2.990	0.000	.00000	.00000	-.00690	.00540	-.00170	.07000	.01460
2.990	1.000	.00000	.00000	-.00680	.00540	-.00150	.06670	.01460
2.990	2.000	.00000	.00000	-.00740	.00560	-.00140	.06320	.01450
2.990	3.000	.00000	.00000	.00050	-.00033	.00020	-.00250	.00004

MSFC 570 (1A31F) (03)/(T9)/(S3/2)/(S3/2)

(R9302) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF10 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 TRINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1056/ 0 RW/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.06960	.06340	-.01420	.01010	-.00380	.11900	.00790
3.490	-9.000	-.05830	.05590	-.01290	.00900	-.00330	.11990	.00810
3.480	-6.000	-.04710	.04760	-.01170	.00810	-.00320	.12240	.01010
3.480	-5.000	-.04040	.04270	-.01120	.00780	-.00310	.09900	.01050
3.480	-4.000	-.03230	.03710	-.01040	.00750	-.00300	.09320	.01060
3.480	-2.000	-.01710	.02800	-.00920	.00690	-.00280	.09320	.01100
3.480	.000	.00320	.01140	-.00750	.00560	-.00290	.07990	.01100
3.480	2.000	.03040	-.00850	-.00600	.00470	-.00150	.07410	.01100
3.480	4.000	.05790	-.02390	-.00640	.00490	-.00160	.07000	.01150
3.480	5.000	.07080	-.04000	-.00670	.00500	-.00170	.06800	.01100
3.480	6.000	.08500	-.05070	-.00650	.00490	-.00180	.06630	.01130
3.480	8.000	.10500	-.06670	-.00600	.00490	-.00140	.06240	.01140
3.480	10.000	.11260	-.07470	-.00600	.00490	-.00110	.05790	.01090
GRADIENT		.01124	-.00834	.00050	-.00032	.00016	-.00294	.00005

RUN NO. 1057/ 0 RW/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.06770	.06000	-.01020	.00720	-.00240	.11760	.00160
4.960	-9.000	-.05110	.04720	-.00980	.00760	-.00270	.10940	.00260
4.960	-6.000	-.04800	.04400	-.00910	.00610	-.00230	.10020	.00340
4.960	-5.000	-.04490	.04140	-.00730	.00530	-.00210	.09520	.00360
4.960	-4.000	-.03390	.03340	-.00710	.00540	-.00200	.09930	.00370
4.960	-2.000	-.02020	.02360	-.00590	.00460	-.00190	.09170	.00420
4.960	.000	-.00200	.01100	-.00500	.00410	-.00190	.07540	.00440
4.960	2.000	.02060	-.00360	-.00420	.00390	-.00160	.06950	.00450
4.960	4.000	.03470	-.01640	-.00440	.00370	-.00160	.06450	.00430
4.960	5.000	.03930	-.02050	-.00470	.00390	-.00160	.06190	.00430
4.960	6.000	.04460	-.02500	-.00490	.00410	-.00140	.05980	.00440
4.960	8.000	.05360	-.03330	-.00470	.00490	-.00090	.05190	.00530
4.960	10.000	.06740	-.04710	-.00410	.00620	.00000	.04390	.00590
GRADIENT		.00864	-.00630	.00030	-.00019	.00005	-.00323	.00007

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03) / (19) / (S3/2) / (S3/2)

(R03C03) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRBINC = 1.500
 SPACER = .000 SPACIA = .000
 SPACAP = .000

RUN NO. 1021/ 1 RWL = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.000	-.26030	.18340	-.01600	.01090	-.00160	.00980	.03060
.600	-6.000	-.19370	.13890	-.01690	.01180	-.00100	.01440	.03010
.600	-6.000	-.14030	.10390	-.01690	.01220	-.00140	.01800	.03050
.600	-5.000	-.11200	.08390	-.01700	.01250	-.00170	.01940	.03060
.600	-4.000	-.09210	.06360	-.01830	.01340	-.00210	.02070	.03010
.600	-2.000	-.01150	.01690	-.02010	.01490	-.00240	.02190	.03090
.600	.000	.06590	-.03590	-.02090	.01520	-.00220	.02190	.03070
.600	2.000	.14410	-.09000	-.02190	.01600	-.00250	.01990	.03090
.600	4.000	.22180	-.14450	-.02300	.01700	-.00220	.01590	.03170
.600	5.000	.26240	-.17300	-.02360	.01750	-.00210	.01370	.03210
.600	6.000	.30640	-.20410	-.02490	.01840	-.00290	.01020	.03220
.600	8.000	.39450	-.26620	-.02540	.01900	-.00300	.01190	.03250
.600	10.000	.48290	-.32820	-.02310	.01790	-.00370	.02520	.03310
GRADIENT	.03776	-.02810	-.00062	.00046	.00003	-.00003	-.00034	.00015

RUN NO. 1022/ 0 RWL = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	-.26680	.19230	-.02410	.01660	-.00410	.01390	.03150
.799	-6.000	-.19360	.14110	-.02510	.01770	-.00400	.01930	.03130
.799	-6.000	-.13150	.09930	-.02410	.01730	-.00340	.02120	.03120
.799	-5.000	-.09990	.07810	-.02350	.01700	-.00310	.02240	.03120
.799	-4.000	-.06660	.05530	-.02340	.01690	-.00310	.02390	.03100
.799	-2.000	.00950	.00360	-.02130	.01590	-.00220	.02540	.03110
.799	.000	.08190	-.04940	-.02150	.01620	-.00210	.02460	.03190
.799	2.000	.16370	-.10490	-.02200	.01630	-.00220	.02310	.03190
.799	4.000	.24930	-.16130	-.02150	.01590	-.00170	.02290	.03130
.799	5.000	.28850	-.19870	-.02190	.01620	-.00170	.02390	.03110
.799	6.000	.32660	-.21520	-.02470	.01820	-.00250	.02390	.03170
.799	8.000	.40010	-.26610	-.02690	.01980	-.00330	.02740	.03250
.799	10.000	.46940	-.31320	-.02350	.01720	-.00290	.03460	.03290
GRADIENT	.03904	-.02696	.00016	-.00009	.00014	-.00002	-.00003	.00002

WSFC 570 (1A31F) (G3)/(T9)/(S3/2)/(S3/2)

(093503) (21 SEP 73)

REFERENCE DATA

SREF = 8.1950 SQ. IN. XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

DETA = .000 CONF10 = 100.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CPBINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1023/ 0 RN/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.28030	.19160	-.02790	.02010	-.00610	.02270	.03370
.900	-8.000	-.19090	.13390	-.02790	.02060	-.00550	.02790	.03490
.900	-6.000	-.10920	.09690	-.02840	.02120	-.00590	.03090	.03370
.900	-5.000	-.07240	.06150	-.02830	.02130	-.00600	.03250	.03330
.900	-4.000	-.03310	.03420	-.02900	.02120	-.00590	.03420	.03320
.900	-2.000	.04190	-.01790	-.02760	.02120	-.00570	.03390	.03390
.900	.000	.11170	-.06600	-.02940	.02230	-.00570	.03650	.03330
.900	2.000	.17970	-.11170	-.02750	.02090	-.00460	.03530	.03310
.900	4.000	.25110	-.15960	-.02520	.01910	-.00390	.03670	.03260
.900	5.000	.28710	-.18410	-.02490	.01870	-.00390	.03710	.03260
.900	6.000	.32230	-.20970	-.02500	.01890	-.00370	.03820	.03200
.900	8.000	.39290	-.25710	-.02410	.01810	-.00330	.03940	.03510
.900	10.000	.46190	-.30340	-.02070	.01520	-.00290	.04790	.03130
GRADIENT		.03567	-.02434	.00032	-.00024	.00023	.00039	-.00009

RUN NO. 1023/ 0 RN/L = 5.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.28650	.22560	-.01900	.01490	-.00330	.05870	.03140
1.050	-8.000	-.18720	.13270	-.02030	.01620	-.00330	.06330	.03110
1.050	-6.000	-.09780	.08810	-.02000	.01620	-.00320	.06960	.03050
1.050	-5.000	-.05410	.05650	-.01920	.01560	-.00310	.07080	.03030
1.050	-4.000	-.01040	.02490	-.01790	.01450	-.00280	.07280	.03030
1.050	-2.000	.08160	-.04140	-.01710	.01400	-.00300	.07520	.02960
1.050	.000	.16990	-.10430	-.01760	.01330	-.00320	.07490	.02900
1.050	2.000	.23340	-.14750	-.01660	.01310	-.00350	.07140	.02790
1.050	4.000	.29270	-.18490	-.01640	.01490	-.00360	.06920	.02450
1.050	5.000	.32360	-.20460	-.01810	.01450	-.00350	.06700	.02370
1.050	6.000	.35430	-.22500	-.01890	.01510	-.00340	.06530	.02410
1.050	8.000	.41110	-.26270	-.01900	.01510	-.00330	.06560	.02450
1.050	10.000	.46240	-.29660	-.01720	.01310	-.00330	.07210	.02350
GRADIENT		.03783	-.02619	.00001	-.00002	-.00007	-.00030	-.00069

MSFC 570 (1A31F) (03)/(T9)/(S3/2)/(S3/2)

(R03003) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SR9 = .000 CRBTNC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1024/ 0 RV/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.29030	.23370	-.02100	.01560	-.00300	.07430	.04090
1.245	-8.000	-.19090	.15990	-.01990	.01470	-.00300	.07770	.04060
1.245	-6.000	-.09900	.09110	-.01890	.01400	-.00470	.08220	.04090
1.245	-5.000	-.05220	.05690	-.01830	.01360	-.00450	.08470	.04090
1.245	-4.000	-.00390	.02170	-.01790	.01320	-.00440	.08720	.04090
1.245	-2.000	.09100	-.04690	-.01690	.01230	-.00390	.09070	.04010
1.245	.000	.19150	-.11200	-.01610	.01200	-.00350	.09250	.04020
1.245	2.000	.25640	-.16390	-.01700	.01300	-.00410	.09370	.03990
1.245	4.000	.33390	-.21700	-.01860	.01450	-.00490	.09450	.04090
1.245	5.000	.37270	-.24390	-.01980	.01560	-.00490	.09450	.04160
1.245	6.000	.40660	-.26670	-.02210	.01740	-.00350	.09360	.04190
1.245	8.000	.46500	-.30580	-.02410	.01890	-.00320	.09260	.04210
1.245	10.000	.51200	-.33690	-.02110	.01660	-.00720	.09340	.04310
1.245	GRADIENT	.04229	-.02991	-.00011	.00019	-.00004	.00094	.00004

RUN NO. 1032/ 0 RV/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-10.000	-.26020	.21890	-.02210	.01630	-.00390	.09970	.02950
1.459	-8.000	-.19370	.16600	-.02190	.01640	-.00600	.09780	.03040
1.459	-6.000	-.11840	.10830	-.02180	.01630	-.00370	.09960	.02960
1.459	-5.000	-.07840	.07790	-.02140	.01600	-.00340	.09040	.02930
1.459	-4.000	-.03690	.04620	-.02070	.01530	-.00310	.09090	.02930
1.459	-2.000	.05490	-.02300	-.02060	.01520	-.00470	.09310	.02940
1.459	.000	.15160	-.09490	-.02010	.01470	-.00460	.09510	.02900
1.459	2.000	.23960	-.15650	-.02020	.01520	-.00480	.09750	.02850
1.459	4.000	.32290	-.21380	-.02170	.01650	-.00350	.09970	.02920
1.459	5.000	.36310	-.24180	-.02270	.01720	-.00350	.10060	.02940
1.459	6.000	.40430	-.27040	-.02300	.01740	-.00350	.10220	.02900
1.459	8.000	.47930	-.32230	-.02290	.01730	-.00330	.10390	.02920
1.459	10.000	.53960	-.36640	-.02240	.01700	-.00430	.10220	.03170
1.459	GRADIENT	.04462	-.03227	-.00011	.00011	-.00004	.00106	-.00001

NSFC 370 (L431F) (03) / (T9) / (S3/2) / (S3/2)

(R03003) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 CONFIC = 100.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBITC = 1.500
SPACER = .000 SPACIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1041/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.16670	.15730	-.01600	.01170	-.00450	.10420	.02090
1.967	-8.000	-.11860	.11740	-.01340	.01150	-.00430	.09780	.02290
1.967	-6.000	-.06920	.07760	-.01430	.01070	-.00440	.09250	.02470
1.967	-5.000	-.04490	.05970	-.01390	.01030	-.00430	.09110	.02470
1.967	-4.000	-.02030	.04000	-.01340	.01030	-.00410	.09010	.02410
1.967	-2.000	.03210	-.00040	-.01340	.01040	-.00350	.09790	.02350
1.967	.000	.09230	-.04600	-.01340	.01010	-.00320	.09990	.02230
1.967	2.000	.15560	-.10200	-.01340	.00990	-.00290	.09090	.02210
1.967	4.000	.24290	-.15900	-.01400	.01040	-.00290	.09320	.02340
1.967	5.000	.27800	-.19330	-.01430	.01070	-.00290	.09430	.02400
1.967	6.000	.31180	-.21050	-.01390	.01040	-.00290	.09320	.02500
1.967	8.000	.35920	-.25300	-.01330	.00990	-.00290	.09620	.02930
1.967	10.000	.41020	-.28440	-.01340	.00970	-.00280	.09710	.02950
GRADIENT		.03262	-.02466	-.00905	.00000	.00015	.00039	-.00007

RUN NO. 1054/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.04820	.05370	-.01360	.01010	-.00410	.11690	.01160
2.990	-8.000	-.03520	.04430	-.01250	.00930	-.00390	.10960	.01300
2.990	-6.000	-.02090	.03320	-.01240	.00910	-.00390	.10150	.01370
2.990	-5.000	-.01160	.02650	-.01200	.00890	-.00370	.09790	.01390
2.990	-4.000	.00010	.01940	-.01080	.00800	-.00330	.09470	.01390
2.990	-2.000	.01910	.00390	-.00990	.00720	-.00290	.09920	.01450
2.990	.000	.04090	-.01200	-.00970	.00630	-.00250	.09320	.01450
2.990	2.000	.07290	-.03520	-.00790	.00600	-.00220	.07930	.01440
2.990	4.000	.10750	-.06200	-.00770	.00590	-.00200	.07360	.01460
2.990	5.000	.12340	-.07460	-.00780	.00600	-.00200	.07390	.01470
2.990	6.000	.13900	-.09510	-.00940	.00650	-.00210	.07220	.01460
2.990	8.000	.16260	-.10490	-.00960	.00680	-.00190	.06900	.01460
2.990	10.000	.17780	-.11930	-.00970	.00690	-.00190	.06570	.01470
GRADIENT		.01347	-.01006	.00042	-.00028	.00017	-.00239	.00007

MSFC 370 (1A31F) (03)/(T9)/(S3/2)/(S3/2)

(R93C03) (21 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COEFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1033/ 0 RVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.03440	.04030	-.01310	.00960	-.00350	.11940	.00690
3.480	-8.000	-.02510	.03320	-.01140	.00640	-.00300	.11020	.00450
3.480	-6.000	-.01550	.02370	-.01060	.00760	-.00290	.10290	.00960
3.480	-5.000	-.00980	.02150	-.01020	.00740	-.00280	.09990	.01000
3.480	-4.000	-.00300	.01700	-.00960	.00710	-.00270	.09450	.01040
3.480	-2.000	.01160	.00640	-.00930	.00620	-.00230	.08640	.01090
3.480	.000	.02930	-.00650	-.00710	.00540	-.00190	.08040	.01040
3.480	2.000	.05380	-.02380	-.00650	.00490	-.00160	.07570	.01100
3.480	4.000	.08610	-.04930	-.00690	.00320	-.00170	.07190	.01100
3.480	5.000	.10020	-.05980	-.00710	.00330	-.00180	.06990	.01100
3.480	6.000	.11400	-.06900	-.00690	.00330	-.00170	.06940	.01130
3.480	8.000	.13290	-.08360	-.00650	.00320	-.00160	.06470	.01140
3.480	10.000	.13980	-.09010	-.00690	.00330	-.00160	.06030	.01100
GRADIENT		.01105	-.00808	.00033	-.00023	.00012	-.00287	.00004

RUN NO. 1032/ 0 RVL = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.02540	.03360	-.00740	.00560	-.00170	.11990	.00130
4.960	-8.000	-.01710	.02630	-.00830	.00700	-.00230	.10980	.00220
4.960	-6.000	-.01050	.02070	-.00620	.00530	-.00190	.10160	.00290
4.960	-5.000	-.00710	.01790	-.00330	.00490	-.00170	.09730	.00310
4.960	-4.000	-.00340	.01570	-.00610	.00320	-.00190	.09270	.00350
4.960	-2.000	.00420	.00780	-.00620	.00320	-.00200	.08370	.00390
4.960	.000	.02050	-.00460	-.00580	.00460	-.00210	.07740	.00400
4.960	2.000	.04600	-.02180	-.00400	.00350	-.00160	.07260	.00430
4.960	4.000	.06990	-.03260	-.00450	.00410	-.00180	.06730	.00440
4.960	5.000	.06410	-.03570	-.00540	.00470	-.00210	.06440	.00440
4.960	6.000	.06810	-.03940	-.00570	.00490	-.00190	.06140	.00450
4.960	8.000	.07780	-.04810	-.00510	.00410	-.00040	.05510	.00450
4.960	10.000	.08990	-.05830	-.00260	.00190	-.00240	.04930	.00490
GRADIENT		.00783	-.00578	.00011	-.00009	-.00001	-.00321	.00012

(R53004) (21 SEP 73)

MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 9.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

SETA = .000 COMF10 = 100.000
DELTAZ = .280 RUDDER = .000
X-SRS = .000 ORBING = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1010/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.600	-10.000	-.38320	.26420	-.01470	.01010	-.00070	.00950	.03110
.600	-8.000	-.30750	.21090	-.01470	.01030	-.00090	.01210	.03100
.600	-6.000	-.23810	.16470	-.01810	.01280	-.00190	.01570	.03060
.600	-4.000	-.20610	.14360	-.01960	.01390	-.00220	.01720	.03050
.600	-2.000	-.17330	.12300	-.01970	.01420	-.00210	.01900	.03110
.600	.000	-.11140	.07970	-.01990	.01460	-.00240	.01940	.03120
.600	.000	-.03460	.02820	-.01980	.01400	-.00150	.02000	.03090
.600	2.000	.04990	-.03030	-.02040	.01520	-.00190	.01900	.03120
.600	4.000	.13230	-.08970	-.02230	.01640	-.00230	.01410	.03120
.600	5.000	.17330	-.11760	-.02290	.01690	-.00250	.01160	.03110
.600	6.000	.21800	-.14900	-.02230	.01630	-.00230	.00910	.03140
.600	8.000	.30210	-.20370	-.02210	.01610	-.00240	.00150	.03210
.600	10.000	.37840	-.26270	-.02350	.01670	-.00370	-.00440	.03310
GRADIENT		.03834	-.02635	-.00031	.00026	-.00002	-.00032	.00004

RUN NO. 1009/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.797	-10.000	-.39030	.27380	-.01620	.01130	-.00100	.01620	.03240
.797	-8.000	-.31120	.21900	-.01700	.01200	-.00140	.01670	.03200
.797	-6.000	-.23350	.16340	-.01730	.01240	-.00140	.02020	.03100
.797	-4.000	-.19860	.13920	-.01730	.01260	-.00120	.02170	.03070
.797	-2.000	-.16090	.11480	-.01770	.01310	-.00090	.02230	.03090
.797	.000	-.09340	.07110	-.01990	.01470	-.00190	.02340	.03120
.797	2.000	.06690	.01840	-.02140	.01590	-.00240	.02320	.03090
.797	4.000	.15330	-.00060	-.02070	.01530	-.00190	.02140	.03060
.797	5.000	.19550	-.10060	-.02120	.01570	-.00200	.01760	.03100
.797	6.000	.23920	-.12990	-.02190	.01610	-.00220	.01570	.03100
.797	8.000	.32100	-.15090	-.02210	.01630	-.00160	.01510	.03090
.797	9.000	.32100	-.21930	-.02190	.01610	-.00190	.01460	.03070
.797	10.000	.39340	-.26980	-.02290	.01610	-.00320	.01460	.03020
GRADIENT		.03935	-.02696	-.00043	.00033	-.00011	-.00039	.00002

DATE 03 NOV 74

TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R83004) (21 SEP 73)

REFERENCE DATA

BRP = 6.1880 SQ. IN XMRP = 2.5490 IN.
 LREP = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 100.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRIBINC = -.500
 SPACER = .000 SPADTA = .000
 SPACAP = .000

RUN NO. 1009/ 0 RVL = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.903	-10.000	-.39030	.28160	-.02130	.01990	-.00290	.03010	.03480
.903	-8.000	-.30470	.21930	-.01660	.01430	-.00240	.02790	.03440
.903	-6.000	-.22160	.16090	-.02100	.01610	-.00320	.02920	.03370
.903	-5.000	-.18390	.13480	-.02230	.01710	-.00330	.03030	.03340
.903	-4.000	-.14970	.11130	-.02310	.01780	-.00360	.03110	.03360
.903	-2.000	-.07370	.05910	-.02330	.01810	-.00400	.03290	.03310
.903	.000	.00430	.00490	-.02390	.01850	-.00420	.03320	.03300
.903	2.000	.07920	-.04590	-.02210	.01710	-.00310	.03230	.03290
.903	4.000	.15810	-.10060	-.02310	.01780	-.00330	.03050	.03170
.903	5.000	.19890	-.12910	-.02420	.01840	-.00370	.02960	.03140
.903	6.000	.23660	-.15510	-.02360	.01760	-.00370	.02930	.03070
.903	8.000	.31460	-.20950	-.02220	.01630	-.00370	.02810	.03110
.903	10.000	.39770	-.26920	-.02130	.01580	-.00330	.02440	.03310
GRADIENT	.03834	-.02641	-.00008	-.00008	.00003	-.00002	-.00004	-.00021

RUN NO. 1007/ 0 RVL = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.033	-10.000	-.44430	.34020	-.01190	.01000	-.00060	.06340	.03320
1.033	-8.000	-.33730	.25880	-.01410	.01180	-.00160	.06390	.03250
1.033	-6.000	-.22630	.17780	-.01510	.01290	-.00170	.06670	.03140
1.033	-5.000	-.17620	.14160	-.01550	.01320	-.00170	.06820	.03090
1.033	-4.000	-.13180	.10940	-.01590	.01350	-.00200	.06970	.03040
1.033	-2.000	-.03340	.03740	-.01580	.01320	-.00280	.07100	.02990
1.033	.000	.06160	-.03320	-.01640	.01340	-.00360	.06830	.02910
1.033	2.000	.14230	-.09010	-.01590	.01290	-.00380	.06410	.02790
1.033	4.000	.21240	-.13710	-.01700	.01380	-.00410	.06040	.02540
1.033	5.000	.24560	-.15890	-.01780	.01440	-.00430	.05890	.02400
1.033	6.000	.27860	-.18020	-.01690	.01320	-.00440	.05780	.02260
1.033	8.000	.34270	-.22230	-.01590	.01220	-.00420	.05590	.02120
1.033	10.000	.40330	-.26370	-.01790	.01420	-.00350	.05320	.02240
GRADIENT	.04264	-.03049	-.00016	-.00016	.00007	-.00026	-.00109	-.00054

MSFC 570(11A31F) (G3)/(T9)/(S3/2)/(S3/2)

(R63004) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 CRAFTG = 100.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 ORBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1008/ 0 RM/L = 6.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.247	-10.000	-44580	.34920	-.01360	.01050	-.00190	.07950	.04140
1.247	-8.000	-34950	.27320	-.01470	.01110	-.00220	.07810	.04050
1.247	-6.000	-24340	.19370	-.01440	.01090	-.00230	.07850	.03970
1.247	-5.000	-19400	.13640	-.01420	.01070	-.00240	.07900	.03970
1.247	-4.000	-14780	.12150	-.01430	.01070	-.00240	.07950	.04000
1.247	-2.000	-04820	.04790	-.01460	.01090	-.00250	.08160	.03970
1.247	.000	.05650	-.02760	-.01310	.00970	-.00270	.09320	.04010
1.247	2.000	.14520	-.09970	-.01320	.01180	-.00370	.09380	.04040
1.247	4.000	.23050	-.15010	-.01920	.01440	-.00470	.09290	.04090
1.247	5.000	.27490	-.18190	-.01990	.01490	-.00490	.09210	.04090
1.247	6.000	.32590	-.21860	-.01800	.01430	-.00320	.09210	.04010
1.247	8.000	.40150	-.27180	-.01900	.01520	-.00390	.07950	.04050
1.247	10.000	.43590	-.29290	-.02470	.01990	-.00610	.07300	.04360
GRADIENT		.04716	-.03392	-.00044	.00042	-.00026	.00037	.00013

RUN NO. 1035/ 0 RM/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.461	-10.000	-39910	.32260	-.02040	.01560	-.00390	.09540	.03240
1.461	-8.000	-32650	.26510	-.02060	.01560	-.00690	.09250	.03190
1.461	-6.000	-24910	.20500	-.01990	.01510	-.00350	.09140	.03070
1.461	-5.000	-20790	.17350	-.01940	.01480	-.00330	.09080	.03030
1.461	-4.000	-16530	.14100	-.01930	.01470	-.00490	.09000	.03010
1.461	-2.000	-09290	.07910	-.01910	.01440	-.00440	.08930	.02900
1.461	.000	.00960	.00920	-.01890	.01420	-.00440	.08960	.02970
1.461	2.000	.10450	-.06140	-.01920	.01430	-.00460	.08910	.02950
1.461	4.000	.20230	-.13260	-.01970	.01490	-.00490	.08750	.02930
1.461	5.000	.24950	-.16690	-.01980	.01500	-.00510	.08700	.02990
1.461	6.000	.29220	-.19790	-.02060	.01560	-.00530	.08640	.03050
1.461	8.000	.37190	-.25530	-.02170	.01650	-.00540	.08510	.03160
1.461	10.000	.44620	-.30820	-.02160	.01630	-.00590	.08350	.03210
GRADIENT		.04591	-.03417	-.00004	.00002	-.00001	-.00035	-.00007

MSFC 370 (1A31F) (C3)/(T9)/(S3/2)/(S3/2)

(R33004) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1036/ 0 RNL = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.27310	.23440	-.01680	.01200	-.00530	.10990	.02290
1.967	-8.000	-.22040	.19250	-.01330	.01160	-.00480	.10290	.02330
1.967	-6.000	-.17400	.15590	-.01390	.01080	-.00440	.09760	.02410
1.967	-5.000	-.15130	.13790	-.01390	.01060	-.00440	.09550	.02420
1.967	-4.000	-.12840	.11970	-.01340	.01050	-.00440	.09350	.02420
1.967	-2.000	-.07970	.08100	-.01330	.01030	-.00420	.08900	.02430
1.967	.000	-.02050	.03590	-.01220	.00940	-.00320	.08760	.02430
1.967	2.000	.04850	-.01670	-.01210	.00920	-.00290	.08800	.02400
1.967	4.000	.12420	-.07460	-.01270	.00950	-.00300	.08610	.02350
1.967	5.000	.16170	-.10340	-.01280	.00960	-.00290	.08460	.02340
1.967	6.000	.19640	-.13050	-.01240	.00950	-.00280	.08300	.02350
1.967	8.000	.26030	-.18060	-.01210	.00930	-.00270	.08140	.02440
1.967	10.000	.31740	-.22500	-.01250	.00930	-.00320	.08200	.02630
GRADIENT		.03146	-.02421	.00010	-.00012	.00017	-.00096	-.00008

RUN NO. 1049/ 0 RNL = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.12540	.10740	-.01360	.01000	-.00400	.12010	.01100
2.990	-8.000	-.10790	.09390	-.01290	.00940	-.00380	.11370	.01190
2.990	-6.000	-.08460	.07750	-.01130	.00840	-.00340	.10590	.01300
2.990	-5.000	-.07400	.06990	-.01060	.00800	-.00320	.10160	.01360
2.990	-4.000	-.06740	.06430	-.01060	.00790	-.00330	.09710	.01420
2.990	-2.000	-.04680	.04980	-.00930	.00720	-.00290	.09920	.01490
2.990	.000	-.01820	.02830	-.00740	.00600	-.00220	.09340	.01470
2.990	2.000	.01400	.00350	-.00710	.00360	-.00190	.07440	.01570
2.990	4.000	.04720	-.02190	-.00740	.00360	-.00200	.07400	.01620
2.990	5.000	.06350	-.03410	-.00730	.00350	-.00210	.07190	.01600
2.990	6.000	.08010	-.04640	-.00700	.00340	-.00190	.07000	.01590
2.990	8.000	.10720	-.06690	-.00690	.00340	-.00190	.06630	.01590
2.990	10.000	.12540	-.08120	-.00730	.00300	-.00200	.06350	.01560
GRADIENT		.01406	-.01062	.00037	-.00026	.00014	-.00292	.00024

MSFC 370 (IASIF) (03) / (T9) / (S3/2) / (S3/2)

(093004) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLG = 100.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 GRBINC = -.000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1030/ 0 RIV/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.10750	.09210	-.01150	.00940	-.00330	.12660	.00900
3.480	-8.000	-.09120	.07970	-.01040	.00770	-.00290	.11490	.00920
3.480	-6.000	-.07840	.06990	-.01000	.00750	-.00290	.10670	.01040
3.480	-5.000	-.07160	.06470	-.01000	.00740	-.00290	.10260	.01070
3.480	-4.000	-.06350	.05920	-.00990	.00720	-.00290	.09960	.01070
3.480	-2.000	-.04620	.04560	-.00990	.00690	-.00270	.09940	.01130
3.480	.000	-.02320	.03150	-.00750	.00590	-.00220	.09160	.01140
3.480	2.000	.00110	.01190	-.00590	.00480	-.00190	.07590	.01200
3.480	4.000	.02820	-.00830	-.00620	.00490	-.00170	.07090	.01220
3.480	5.000	.04170	-.01860	-.00560	.00510	-.00180	.06960	.01210
3.480	6.000	.05770	-.03060	-.00640	.00500	-.00170	.06650	.01190
3.480	8.000	.08330	-.04970	-.00590	.00470	-.00160	.06260	.01190
3.480	10.000	.09850	-.06100	-.00540	.00440	-.00150	.05910	.01290
GRADIENT		.01142	-.00941	.00042	-.00027	.00013	-.00342	.00016

RUN NO. 1031/ 0 RIV/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
4.960	-10.000	-.07990	.07150	-.00930	.00670	-.00290	.12690	.00390
4.960	-8.000	-.07240	.06430	-.00750	.00640	-.00210	.11470	.00350
4.960	-6.000	-.06370	.05690	-.00640	.00590	-.00210	.10590	.00410
4.960	-5.000	-.05920	.05310	-.00620	.00550	-.00220	.10190	.00430
4.960	-4.000	-.05630	.04990	-.00660	.00550	-.00240	.09720	.00440
4.960	-2.000	-.03890	.03720	-.00520	.00450	-.00200	.09690	.00450
4.960	.000	-.02240	.02450	-.00510	.00420	-.00190	.07890	.00450
4.960	2.000	.00100	.00770	-.00420	.00370	-.00160	.07260	.00450
4.960	4.000	.02370	-.00770	-.00310	.00320	-.00120	.06660	.00490
4.960	5.000	.03110	-.01320	-.00320	.00320	-.00120	.06370	.00490
4.960	6.000	.03590	-.01740	-.00330	.00350	-.00140	.06090	.00490
4.960	8.000	.03770	-.02190	-.00340	.00450	-.00220	.05590	.00460
4.960	10.000	.02830	-.02050	-.00900	.00640	-.00360	.05170	.00370
GRADIENT		.00946	-.00690	.00034	-.00025	.00012	-.00390	.00005



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (C3)/(T9)/(S3/2)/(S3/2)

(R93093) (21 SEP 73)

REFERENCE DATA

SREF = 6.1900 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 100.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1011/ 1 RVL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.33010	.22840	-.01270	.00900	-.00040	.00370	.03120
.599	-8.000	-.25780	.17860	-.01530	.01120	-.00110	.01060	.03040
.599	-6.000	-.19750	.13910	-.01740	.01290	-.00190	.01440	.03090
.599	-5.000	-.16780	.11970	-.01790	.01320	-.00220	.01590	.03100
.599	-4.000	-.13720	.09950	-.01840	.01370	-.00240	.01740	.03030
.599	-2.000	-.06730	.05260	-.01740	.01330	-.00200	.01900	.03100
.599	.000	.00690	.00240	-.01590	.01190	-.00100	.02010	.03030
.599	2.000	.06900	-.05400	-.01730	.01290	-.00130	.01980	.02990
.599	4.000	.17450	-.11410	-.01810	.01370	-.00120	.01440	.03080
.599	5.000	.21680	-.14430	-.01830	.01370	-.00100	.01170	.03090
.599	6.000	.25760	-.17340	-.01910	.01400	-.00150	.00990	.03090
.599	8.000	.34680	-.23660	-.02010	.01510	-.00140	.00520	.03110
.599	10.000	.44730	-.30690	-.02000	.01660	.00000	.00430	.03200
GRADIENT		.03869	-.02653	-.00001	.00002	.00014	-.00037	-.00003

RUN NO. 1012/ 1 RVL = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.797	-10.000	-.34440	.24360	-.01980	.01400	-.00270	.01240	.03270
.797	-8.000	-.26510	.18790	-.01930	.01400	-.00250	.01590	.03190
.797	-6.000	-.19090	.13630	-.02400	.01730	-.00360	.01990	.03140
.797	-5.000	-.15600	.11270	-.02520	.01820	-.00390	.02120	.03140
.797	-4.000	-.12300	.09120	-.02450	.01790	-.00360	.02190	.03160
.797	-2.000	-.05490	.04570	-.02310	.01710	-.00370	.02390	.03120
.797	.000	.02430	-.00890	-.02390	.01790	-.00390	.02360	.03160
.797	2.000	.10560	-.06470	-.02520	.01930	-.00370	.02270	.03090
.797	4.000	.19390	-.12600	-.02370	.01730	-.00290	.02010	.03030
.797	5.000	.23920	-.15700	-.02260	.01650	-.00240	.01990	.03040
.797	6.000	.27890	-.19370	-.02240	.01640	-.00240	.01990	.03100
.797	8.000	.35750	-.24020	-.02230	.01630	-.00270	.02030	.03140
.797	10.000	.43350	-.29120	-.02230	.01630	-.00310	.02360	.03040
GRADIENT		.03955	-.02709	.00013	-.00009	.00011	-.00023	-.00012

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLG = 100.000
 DELTAZ = .200 RUDDER = .000
 X-SYS = .000 JOINTC = .000
 SPACER = .000 SPACOTA = .000
 SPACAP = .000

RUN NO. 1013/ 1 RWL = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.000	-.34060	.24710	-.02110	.01370	-.00360	.02350	.03550
.999	-8.000	-.25530	.19560	-.02210	.01670	-.00400	.02550	.03450
.999	-6.000	-.17790	.13200	-.02440	.01870	-.00430	.02890	.03410
.999	-5.000	-.14130	.10690	-.02500	.01920	-.00460	.03020	.03400
.999	-4.000	-.10590	.08260	-.02530	.01960	-.00500	.03130	.03400
.999	-2.000	-.02660	.02900	-.02510	.02020	-.00540	.03420	.03320
.999	.000	.05020	-.02490	-.02570	.01990	-.00520	.03470	.03290
.999	2.000	.12300	-.07460	-.02670	.02040	-.00480	.03350	.03270
.999	4.000	.20220	-.12840	-.02540	.01930	-.00430	.03240	.03240
.999	5.000	.24260	-.15610	-.02420	.01840	-.00410	.03210	.03240
.999	6.000	.29050	-.18230	-.02410	.01820	-.00410	.03170	.03250
.999	8.000	.35410	-.23330	-.02390	.01770	-.00410	.03240	.03320
.999	10.000	.42320	-.28240	-.02300	.01690	-.00400	.03500	.03430
GRADIENT		.03935	-.02627	.00003	-.00005	.00007	.00014	-.00017

RUN NO. 1015/ 1 RWL = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.39030	.29440	-.01430	.01190	-.00150	.05940	.03340
1.050	-8.000	-.27360	.21470	-.01610	.01320	-.00200	.06330	.03190
1.050	-6.000	-.17160	.14110	-.01620	.01360	-.00210	.06830	.03110
1.050	-5.000	-.12490	.10710	-.01620	.01370	-.00210	.06960	.03090
1.050	-4.000	-.08120	.07490	-.01620	.01390	-.00210	.06990	.03100
1.050	-2.000	.01470	.00470	-.01600	.01330	-.00240	.07180	.03000
1.050	.000	.11160	-.06570	-.01550	.01290	-.00290	.07100	.02930
1.050	2.000	.19100	-.12060	-.01670	.01370	-.00300	.06830	.02740
1.050	4.000	.25600	-.16300	-.01740	.01410	-.00390	.06390	.02490
1.050	5.000	.29690	-.18290	-.01740	.01400	-.00400	.06190	.02330
1.050	6.000	.31810	-.20330	-.01760	.01400	-.00390	.06070	.02350
1.050	8.000	.37900	-.24330	-.01780	.01370	-.00350	.06090	.02290
1.050	10.000	.43690	-.28160	-.01660	.01260	-.00400	.06410	.02250
GRADIENT		.04177	-.02946	-.00014	.00004	-.00010	-.00078	-.00072

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (C3) / (T9) / (S3/2) / (S3/2)

(R03C05) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5493 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1014/ 1 RVL = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.250	-10.000	-.36340	.30200	-.01780	.01340	-.00330	.07490	.04220
1.250	-8.000	-.28110	.22470	-.01630	.01240	-.00290	.07620	.04040
1.250	-6.000	-.18260	.15040	-.01590	.01190	-.00310	.07870	.03960
1.250	-5.000	-.13480	.11450	-.01370	.01180	-.00320	.08020	.03940
1.250	-4.000	-.08700	.07920	-.01150	.01160	-.00310	.08170	.03940
1.250	-2.000	.01590	.00390	-.01340	.01150	-.00320	.08470	.03970
1.250	.000	.11670	-.06390	-.01440	.01070	-.00300	.08670	.03940
1.250	2.000	.20000	-.12660	-.01450	.01100	-.00330	.08760	.03940
1.250	4.000	.29460	-.18340	-.01610	.01230	-.00420	.08920	.03940
1.250	5.000	.32820	-.21610	-.01700	.01320	-.00450	.08930	.03940
1.250	6.000	.37260	-.24750	-.01790	.01390	-.00440	.08810	.03990
1.250	8.000	.43940	-.29330	-.01910	.01490	-.00490	.08640	.04090
1.250	10.000	.47540	-.31470	-.01930	.01530	-.00540	.08310	.04230
GRADIENT		.04632	-.03303	-.00008	.00011	-.00012	.00090	.00002

RUN NO. 1033/ 0 RVL = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.459	-10.000	-.34540	.29300	-.02010	.01520	-.00600	.08940	.03220
1.459	-8.000	-.27780	.22880	-.02080	.01590	-.00640	.08810	.03140
1.459	-6.000	-.19560	.16630	-.02030	.01550	-.00570	.08850	.03070
1.459	-5.000	-.15450	.13500	-.01990	.01520	-.00530	.08870	.03030
1.459	-4.000	-.11440	.10430	-.01960	.01500	-.00500	.08860	.03000
1.459	-2.000	-.02700	.03860	-.01900	.01450	-.00440	.08990	.02930
1.459	.000	.06380	-.02340	-.01890	.01420	-.00440	.09040	.02900
1.459	2.000	.15910	-.09810	-.01960	.01490	-.00490	.09090	.02810
1.459	4.000	.25480	-.16870	-.02000	.01490	-.00530	.09190	.02810
1.459	5.000	.30160	-.20280	-.02000	.01490	-.00540	.09220	.02990
1.459	6.000	.34800	-.23530	-.02030	.01520	-.00540	.09230	.03030
1.459	8.000	.42990	-.29260	-.02130	.01620	-.00540	.09240	.03110
1.459	10.000	.49630	-.33950	-.02290	.01740	-.00520	.09230	.03190
GRADIENT		.04586	-.03394	-.00004	-.00002	-.00003	.00036	-.00007

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIC = 100.000
 DELTAZ = .240 FLOODST = .000
 X-SRS = .000 JDRINC = .500
 SPACER = .000 SPACIA = .000
 SPACAP = .000

RUN NO. 1040/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.965	-10.000	-.22030	.19610	-.01610	.01170	-.00490	.10700	.02260
1.965	-8.000	-.16970	.15330	-.01490	.01120	-.00460	.10070	.02300
1.965	-6.000	-.12630	.12160	-.01430	.01100	-.00470	.09900	.02410
1.965	-5.000	-.10330	.10510	-.01390	.01090	-.00460	.09930	.02460
1.965	-4.000	-.08340	.09790	-.01320	.01030	-.00440	.09180	.02500
1.965	-2.000	-.03290	.04960	-.01260	.00990	-.00390	.09950	.02440
1.965	.000	.02510	.00540	-.01210	.00920	-.00320	.09950	.02370
1.965	2.000	.09690	-.04870	-.01240	.00930	-.00300	.09940	.02300
1.965	4.000	.17320	-.13720	-.01270	.00970	-.00290	.09650	.02270
1.965	5.000	.21030	-.13560	-.01270	.00970	-.00290	.09390	.02290
1.965	6.000	.24510	-.16270	-.01270	.00960	-.00280	.09540	.02290
1.965	8.000	.31030	-.21300	-.01290	.00960	-.00290	.09530	.02370
1.965	10.000	.37020	-.25750	-.01290	.00950	-.00310	.09510	.02550
GRADIENT		.03192	-.02423	.00009	-.00009	.00019	-.00070	-.00023

RUN NO. 1049/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.09230	.09430	-.01320	.00970	-.00390	.11930	.01100
2.990	-8.000	-.07650	.07210	-.01270	.00940	-.00390	.11200	.01200
2.990	-6.000	-.05990	.05960	-.01190	.00960	-.00360	.10490	.01300
2.990	-5.000	-.05090	.05300	-.01110	.00920	-.00350	.10100	.01350
2.990	-4.000	-.04200	.04630	-.01090	.00910	-.00340	.09690	.01420
2.990	-2.000	-.01750	.02890	-.00920	.00690	-.00290	.09000	.01460
2.990	.000	.00810	.00970	-.00860	.00630	-.00250	.09350	.01490
2.990	2.000	.04020	-.01400	-.00760	.00370	-.00210	.07990	.01560
2.990	4.000	.07550	-.04010	-.00690	.00350	-.00170	.07520	.01590
2.990	5.000	.09190	-.05240	-.00700	.00350	-.00160	.07340	.01560
2.990	6.000	.10620	-.06370	-.00750	.00390	-.00190	.07160	.01570
2.990	8.000	.13260	-.09390	-.00910	.00620	-.00210	.06920	.01560
2.990	10.000	.15820	-.10180	-.00790	.00620	-.00210	.06450	.01530
GRADIENT		.01444	-.01065	.00044	-.00029	.00020	-.00274	.00020

MSFC 570 (1A31F) (G3) / (T9) / (S3/2) / (S3/2)

(R9305) (21 SEP 73)

REFERENCE DATA

SREF =	6.1980 SQ. IN	XMRP =	2.3490 IN.
LREF =	3.3130 IN.	YMRP =	.0000 IN.
BREF =	3.3130 IN.	ZMRP =	.0000 IN.
SCALE =	.0040		

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	100.000
DELTAZ	=	.240	RUDDER	=	.000
X-SRB	=	.000	CRABING	=	.300
SPACET	=	.000	SPADIA	=	.000
SPACAP	=	.000			

RUN NO. 1047/ 0 RM/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-0.7360	0.7090	-0.01170	.00350	-.00340	.12020	.00950
3.480	-8.000	-.06230	0.6000	-0.01060	.00770	-.00310	.11320	.00990
3.480	-6.000	-.04950	0.4990	-0.00960	.00710	-.00280	.10540	.01090
3.480	-5.000	-.04270	0.4310	-0.00910	.00690	-.00270	.10160	.01120
3.480	-4.000	-.03710	0.4090	-0.00840	.00630	-.00260	.09780	.01150
3.480	-2.000	-.02240	0.3080	-0.00760	.00590	-.00240	.09010	.01170
3.480	.000	-.00330	.01700	-0.00650	.00500	-.00210	.09300	.01160
3.480	2.000	.02400	-.00330	-0.00560	.00440	-.00170	.07690	.01210
3.480	4.000	.05240	-.02470	-0.00580	.00450	-.00160	.07230	.01230
3.480	5.000	.06610	-.03350	-0.00600	.00460	-.00160	.07020	.01220
3.480	6.000	.08150	-.04660	-0.00590	.00470	-.00160	.06920	.01190
3.480	8.000	.10730	-.06600	-0.00590	.00480	-.00160	.06390	.01190
3.480	10.000	.12600	-.07940	-0.00610	.00490	-.00170	.05940	.01240
GRADIENT		.01105	-.00912	.00033	-.00024	.00012	-.00317	.00010

RUN NO. 1046/ 3 RM/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
4.960	-10.000	-.06020	.06130	-.00370	.00530	-.00150	.12120	.00320
4.960	-8.000	-.05160	.05250	-.00710	.00580	-.00230	.11210	.00390
4.960	-6.000	-.04010	.04310	-.00650	.00570	-.00230	.10400	.00400
4.960	-4.960	-.03480	.03900	-.00580	.00340	-.00210	.10020	.00410
4.960	-4.000	-.03300	.03720	-.00460	.00450	-.00170	.09650	.00430
4.960	-2.000	-.02070	.02720	-.00450	.00410	-.00190	.09850	.00450
4.960	.000	-.00340	.01410	-.00330	.00340	-.00140	.09000	.00470
4.960	2.000	.01170	.00150	-.00360	.00330	-.00150	.07400	.00490
4.960	4.000	.03180	-.01270	-.00290	.00280	-.00110	.06840	.00500
4.960	5.000	.04210	-.01950	-.00210	.00250	-.00090	.06530	.00500
4.960	6.000	.05020	-.02520	-.00180	.00240	-.00070	.06240	.00490
4.960	8.000	.05970	-.03320	-.00270	.00300	-.00090	.05730	.00440
4.960	10.000	.05980	-.03620	-.00570	.00460	-.00150	.05320	.00370
GRADIENT		.00787	-.00604	.00030	-.00025	.00011	-.00351	.00009

(R03206) (21 SEP 73)

MSFC 570 (1A31F) (03)/(19)/(53/2)/(53/2)

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .240 RUDDER = .000
 X-SR2 = .000 SGTINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

REFERENCE DATA

SREF = 6.1990 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

RUN NO. 1030/ 0 RN/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-27070	.19740	-.01850	.01290	-.00350	.00670	.02970
.599	-9.000	-20220	.14090	-.02170	.01390	-.00310	.01200	.02990
.599	-8.000	-14870	.10760	-.02140	.01590	-.00300	.01650	.02990
.599	-5.000	-12040	.09970	-.02090	.01520	-.00290	.01920	.02970
.599	-4.000	-08620	.06670	-.02090	.01330	-.00300	.01940	.02920
.599	-2.000	-.01310	.01990	-.02090	.01540	-.00300	.02110	.02990
.599	.000	.06170	-.03400	-.02100	.01550	-.00260	.02140	.02950
.599	2.000	.14250	-.09920	-.02090	.01540	-.00220	.01950	.02940
.599	4.000	.22830	-.14990	-.02150	.01590	-.00220	.01620	.02990
.599	5.000	.27220	-.17960	-.02250	.01630	-.00230	.01440	.03020
.599	6.000	.31770	-.21170	-.02280	.01690	-.00250	.01160	.03000
.599	8.000	.40650	-.27360	-.02310	.01750	-.00260	.01290	.03040
.599	10.000	.49270	-.33250	-.02210	.01700	-.00160	.02400	.03220
GRADIENT		.03925	-.02699	-.00010	.00009	.00009	-.00039	.00010

RUN NO. 1029/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.800	-10.000	-26450	.20160	-.02230	.01570	-.00370	.01040	.03140
.800	-9.000	-20960	.14990	-.02230	.01620	-.00340	.01600	.03050
.800	-8.000	-14430	.10730	-.02270	.01660	-.00320	.02000	.02990
.800	-5.000	-11150	.09540	-.02320	.01690	-.00330	.02130	.03010
.800	-4.000	-07630	.06140	-.02390	.01740	-.00350	.02210	.03090
.800	-2.000	-.00070	.01090	-.02410	.01790	-.00390	.02450	.03030
.800	.000	.07990	-.04460	-.02340	.01900	-.00410	.02470	.03060
.800	2.000	.16490	-.10370	-.02640	.01940	-.00450	.02350	.03050
.800	4.000	.25030	-.16260	-.02570	.01870	-.00350	.02360	.03020
.800	5.000	.29170	-.19090	-.02530	.01840	-.00330	.02420	.03040
.800	6.000	.32990	-.21700	-.02550	.01860	-.00360	.02490	.03120
.800	8.000	.40610	-.26930	-.02600	.01900	-.00400	.02900	.03390
.800	10.000	.49310	-.32150	-.02610	.01990	-.00390	.03390	.03390
GRADIENT		.04060	-.02795	-.00025	.00019	-.00000	.00021	-.00002



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TABULATED SOURCE DATA - NSFC 570

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MSFC 570 (1A31F) (C3)/(T9)/(S3/2)/(S3/2)

(R83C06) (21 SEP 73)

REFERENCE DATA

BREF = 9.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .280 RUDDER = .000
 X-SRS = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1028/ 0 RW/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-1.27640	.20150	-.02670	.01980	-.00390	.02100	.03340
.901	-8.000	-.19620	.14550	-.02920	.02190	-.00340	.02530	.03310
.901	-6.000	-.12480	.09660	-.02870	.02170	-.00350	.02940	.03240
.901	-5.000	-.08720	.07100	-.02900	.02130	-.00340	.03120	.03220
.901	-4.000	-.04660	.04340	-.02740	.02100	-.00310	.03300	.03230
.901	-2.000	.03100	-.00980	-.02630	.02020	-.00580	.03580	.03220
.901	.000	.10460	-.06020	-.02700	.02060	-.00370	.03660	.03210
.901	2.000	.17660	-.10690	-.02740	.02080	-.00530	.03620	.03210
.901	4.000	.23240	-.15980	-.02590	.01950	-.00490	.03670	.03160
.901	5.000	.29070	-.18570	-.02510	.01980	-.00470	.03730	.03150
.901	6.000	.32780	-.21110	-.02490	.01870	-.00460	.03740	.03250
.901	8.000	.40100	-.26140	-.02320	.01890	-.00450	.03990	.03370
.901	10.000	.47270	-.31080	-.02380	.01890	-.00440	.04620	.03330
	GRADIENT	.03752	-.02549	.00020	-.00019	.00016	.00051	-.00007

RUN NO. 1026/ 0 RW/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-.30640	.23910	-.01950	.01480	-.00350	.03530	.03080
1.051	-8.000	-.20270	.16400	-.01960	.01580	-.00350	.06240	.02960
1.051	-6.000	-.11030	.09810	-.01980	.01550	-.00330	.06820	.02910
1.051	-5.000	-.06530	.06560	-.01830	.01510	-.00320	.07020	.02900
1.051	-4.000	-.02000	.03260	-.01770	.01460	-.00320	.07170	.02900
1.051	-2.000	.07350	-.03510	-.01820	.01460	-.00340	.07410	.02850
1.051	.000	.16480	-.10070	-.01800	.01450	-.00320	.07420	.02780
1.051	2.000	.23600	-.14830	-.01870	.01510	-.00360	.07180	.02560
1.051	4.000	.29910	-.18840	-.01870	.01490	-.00420	.06940	.02360
1.051	5.000	.33100	-.20890	-.01850	.01460	-.00420	.06710	.02310
1.051	6.000	.36240	-.22950	-.01890	.01490	-.00400	.06630	.02310
1.051	8.000	.42440	-.27050	-.01940	.01500	-.00370	.06780	.02300
1.051	10.000	.48530	-.31120	-.01870	.01410	-.00390	.07290	.02250
	GRADIENT	.03981	-.02759	.00007	-.00000	-.00010	-.00037	-.00063

MSFC 570 (1A31F) (031)/(19)/(S3/2)/(S3/2)

(043506) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 . CONFIG = 100.000
 DELTAZ = .250 RUDDER = .000
 X-SPB = .000 SPDINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1027/ 0 RV/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.31970	.25530	-.02030	.01520	-.00470	.07120	.04050
1.250	-9.000	-.21980	.17890	-.01940	.01450	-.00450	.07440	.03950
1.250	-8.000	-.12030	.10570	-.01930	.01350	-.00420	.07920	.03910
1.250	-7.000	-.07140	.06970	-.01790	.01320	-.00410	.09150	.03900
1.250	-6.000	-.02220	.03360	-.01760	.01300	-.00400	.09390	.03930
1.250	-5.000	.07930	-.03970	-.01700	.01260	-.00390	.09940	.03920
1.250	-4.000	.17420	-.10730	-.01610	.01190	-.00370	.09160	.03940
1.250	-3.000	.25440	-.16230	-.01670	.01260	-.00420	.09320	.03930
1.250	-2.000	.33760	-.21940	-.01660	.01440	-.00500	.09490	.03920
1.250	-1.000	.37990	-.24950	-.01570	.01540	-.00520	.09540	.03940
1.250	0.000	.41880	-.27540	-.02120	.01650	-.00450	.09320	.04000
1.250	1.000	.48610	-.32100	-.02230	.01730	-.00440	.09490	.04090
1.250	2.000	.53920	-.35550	-.02010	.01560	-.00670	.09510	.04170
1.250	3.000	.04495	-.03165	-.00014	.00019	-.00011	.00136	.00005

RUN NO. 1031/ 0 RV/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.455	-10.000	-.29330	.24470	-.02030	.01520	-.00610	.09630	.03200
1.455	-9.000	-.22270	.19900	-.02070	.01580	-.00630	.09620	.03140
1.455	-8.000	-.14250	.12790	-.02060	.01560	-.00590	.09760	.03090
1.455	-7.000	-.10220	.09750	-.02030	.01550	-.00560	.09940	.03050
1.455	-6.000	-.06210	.06730	-.02000	.01520	-.00530	.09920	.03010
1.455	-5.000	.02660	.00090	-.01940	.01470	-.00490	.09140	.02970
1.455	-4.000	.12190	-.07000	-.01950	.01460	-.00470	.09310	.02910
1.455	-3.000	.21910	-.14070	-.01960	.01460	-.00510	.09540	.02890
1.455	-2.000	.31330	-.20740	-.02040	.01520	-.00540	.09790	.02940
1.455	-1.000	.35840	-.23990	-.02090	.01570	-.00560	.09990	.02990
1.455	0.000	.40490	-.27110	-.02150	.01620	-.00570	.10020	.03010
1.455	1.000	.48410	-.32600	-.02240	.01690	-.00570	.10200	.03090
1.455	2.000	.54220	-.36620	-.02320	.01750	-.00630	.10230	.03240
1.455	3.000	.04655	-.03404	-.00006	.00001	-.00001	.00106	-.00007



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F)(03)/(T9)/(S3/2)/(S3/2)

(R03C06) (21 SEP 73)

REFERENCE DATA

SREF = 8.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 100.000
 DELTAZ = .240 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1042/ 0 RNVL = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.000	-.16740	.15770	-.01370	.01160	-.00460	.10370	.02210
1.966	-8.000	-.12010	.12000	-.01490	.01130	-.00470	.10020	.02300
1.966	-6.000	-.07610	.09560	-.01410	.01090	-.00470	.09600	.02410
1.966	-5.000	-.05410	.06960	-.01330	.01040	-.00460	.09390	.02430
1.966	-4.000	-.03150	.05110	-.01280	.00990	-.00440	.09190	.02490
1.966	-2.000	.01840	.01330	-.01230	.00970	-.00400	.08960	.02440
1.966	.000	.07600	-.02990	-.01270	.00970	-.00330	.09090	.02290
1.966	2.000	.14670	-.09250	-.01290	.00990	-.00320	.09060	.02190
1.966	4.000	.22300	-.14040	-.01350	.01020	-.00310	.09060	.02180
1.966	5.000	.26010	-.16950	-.01390	.01040	-.00310	.09100	.02210
1.966	6.000	.29630	-.19630	-.01390	.01030	-.00310	.09110	.02260
1.966	8.000	.36230	-.24650	-.01370	.01010	-.00310	.09170	.02410
1.966	10.000	.41990	-.28990	-.01370	.01020	-.00320	.09370	.02590
GRADIENT		.03162	-.02391	-.00006	.00002	.00016	-.00020	-.00033

RUN NO. 1043/ 0 RNVL = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.03300	.05790	-.01310	.00990	-.00400	.11770	.01060
2.990	-8.000	-.03760	.04610	-.01190	.00990	-.00360	.11140	.01190
2.990	-6.000	-.02410	.03540	-.01150	.00950	-.00350	.10490	.01300
2.990	-5.000	-.01630	.02950	-.01120	.00930	-.00340	.10150	.01360
2.990	-4.000	-.00630	.02260	-.01060	.00920	-.00320	.09900	.01400
2.990	-2.000	.01350	.00790	-.00940	.00900	-.00270	.09120	.01490
2.990	.000	.03970	-.01020	-.00940	.00930	-.00230	.08550	.01480
2.990	2.000	.07010	-.03430	-.00970	.00660	-.00240	.08100	.01530
2.990	4.000	.10280	-.05930	-.00910	.00690	-.00230	.07760	.01590
2.990	5.000	.11900	-.07140	-.00900	.00690	-.00220	.07610	.01570
2.990	6.000	.13550	-.08360	-.00890	.00690	-.00220	.07440	.01560
2.990	8.000	.16970	-.10840	-.00870	.00690	-.00220	.07060	.01530
2.990	10.000	.20610	-.13450	-.00840	.00690	-.00230	.06620	.01470
GRADIENT		.01362	-.01019	.00020	-.00014	.00011	-.00234	.00021

(R9306) (21 SEP 73)

MSFC 570 (1A31F) (G3)/(T9)/(S3/2)/(S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
 LRFP = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CDAFIC = 100.000
 DELTAZ = .290 RUDDER = .000
 X-SFB = .000 CPBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1044/ 0 RNL = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.03910	.04660	-.01170	.00980	-.00340	.11880	.00990
3.480	-9.000	-.02840	.03900	-.01050	.00770	-.00310	.11230	.00580
3.480	-8.000	-.01790	.02950	-.00980	.00720	-.00290	.10540	.01040
3.480	-7.000	-.01220	.02540	-.00930	.00690	-.00270	.10260	.01070
3.480	-6.000	-.00620	.02090	-.00860	.00630	-.00250	.09930	.01110
3.480	-5.000	.00490	.01300	-.00820	.00600	-.00230	.09230	.01150
3.480	-4.000	.02390	.00020	-.00690	.00510	-.00200	.08590	.01140
3.480	-3.000	.05060	-.02000	-.00600	.00470	-.00160	.08030	.01150
3.480	-2.000	.08070	-.04260	-.00630	.00490	-.00160	.07550	.01160
3.480	-1.000	.09590	-.03400	-.00650	.00500	-.00170	.07330	.01160
3.480	0.000	.11090	-.06560	-.00640	.00510	-.00160	.07110	.01140
3.480	1.000	.13550	-.09430	-.00670	.00530	-.00190	.06720	.01120
3.480	2.000	.15200	-.09850	-.00690	.00610	-.00230	.06490	.01140
3.480	3.000	.01098	-.00797	.00031	-.00020	.00012	-.00295	.00007

RUN NO. 1045/ 0 RNL = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.02330	.03590	-.00870	.00710	-.00250	.11610	.00350
4.960	-9.000	-.02360	.03500	-.00910	.00690	-.00290	.10940	.00390
4.960	-8.000	-.01660	.02950	-.00800	.00620	-.00270	.10310	.00400
4.960	-7.000	-.01190	.02600	-.00750	.00590	-.00250	.09990	.00410
4.960	-6.000	-.00830	.02310	-.00720	.00570	-.00250	.09550	.00420
4.960	-5.000	.00740	.01110	-.00690	.00550	-.00240	.09040	.00430
4.960	-4.000	.02190	.00000	-.00590	.00470	-.00200	.08340	.00460
4.960	-3.000	.03930	-.01390	-.00540	.00430	-.00170	.07690	.00490
4.960	-2.000	.05470	-.02610	-.00550	.00420	-.00190	.07120	.00450
4.960	-1.000	.06080	-.03090	-.00570	.00410	-.00190	.06820	.00450
4.960	0.000	.06630	-.03530	-.00590	.00420	-.00200	.06590	.00450
4.960	1.000	.07730	-.04330	-.00600	.00420	-.00210	.06370	.00450
4.960	2.000	.08920	-.05090	-.00570	.00690	-.00140	.05560	.00620
4.960	3.000	.05753	-.00590	.00021	-.00019	.00003	-.00317	.00003



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TABULATED SOURCE DATA - WSFC 570

PAGE 31

MSFC 570 (1A31F) (03) / (19) / (S3/2) / (S3/2)

(R03CD7) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFLC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1103/ 0 RIVL = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.602	-10.000	.02140	-.02000	.20410	-.13070	.06900	.00450	.03410
.602	-8.000	.02160	-.01330	.16340	-.10620	.03390	.00790	.03400
.602	-6.000	.02600	-.01420	.12230	-.07990	.04120	.01210	.03190
.602	-4.000	.03050	-.01400	.07890	-.05160	.02750	.01690	.03040
.602	-2.000	.03160	-.01210	.03630	-.02490	.01300	.01960	.02950
.602	.000	.03580	-.01290	-.00670	.00390	.00130	.02210	.02790
.602	2.000	.03610	-.01500	-.05130	.03360	-.01240	.02090	.02940
.602	4.000	.04250	-.02290	-.09400	.06410	-.02580	.01720	.02990
.602	6.000	.03690	-.02330	-.13750	.09280	-.03950	.01320	.03300
.602	8.000	.03220	-.02440	-.17990	.11940	-.05150	.00950	.03520
.602	10.000	.03340	-.02940	-.21200	.13920	-.06090	.00500	.03930
GRADIENT		.00142	-.00102	-.02176	.01459	-.00668	.00910	-.00012

RUN NO. 1104/ 0 RIVL = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	.03960	-.03100	.21490	-.13750	.06900	.01040	.03490
.799	-8.000	.04740	-.03290	.17610	-.11590	.05910	.01290	.03450
.799	-6.000	.05390	-.03270	.13100	-.09690	.04420	.01670	.03300
.799	-4.000	.05130	-.03440	.09490	-.05620	.02970	.02090	.03110
.799	-2.000	.06340	-.03360	.03940	-.02550	.01590	.02390	.02920
.799	.000	.06170	-.03090	-.00670	.00570	.00130	.02590	.02900
.799	2.000	.06750	-.03550	-.05190	.03620	-.01310	.02470	.02870
.799	4.000	.06570	-.03750	-.09870	.06810	-.02790	.02170	.03050
.799	6.000	.06850	-.04250	-.14320	.09790	-.04200	.01920	.03260
.799	8.000	.06250	-.04350	-.18620	.12410	-.05450	.01490	.03390
.799	10.000	.05940	-.04590	-.22600	.14920	-.06620	.01090	.03910
GRADIENT		.00064	-.00041	-.02292	.01531	-.00720	.00014	-.00008

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAF10 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 BRDINC = .000
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1103/ 0 RN/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
.995	-10.000	.05930	-.04460	.23160	-.14920	.07340	.02130	.03990
.995	-9.000	.06890	-.04720	.19830	-.12390	.06100	.02460	.03570
.995	-8.000	.06920	-.04320	.14090	-.09430	.04120	.02660	.03430
.995	-7.000	.07970	-.04760	.09280	-.06200	.03220	.02910	.03360
.995	-6.000	.08340	-.04790	.04290	-.02790	.01620	.03310	.03160
.995	-5.000	.08370	-.04540	-.00660	.00600	.00040	.03480	.03000
.995	-4.000	.09690	-.04990	-.03330	.03930	-.01430	.03400	.03070
.995	-3.000	.09370	-.05030	-.10360	.07270	-.02960	.03030	.03270
.995	-2.000	.08360	-.03320	-.11340	.10620	-.04430	.02930	.03340
.995	-1.000	.07530	-.05000	-.19250	.12990	-.05390	.02650	.03920
.995	0.000	.06630	-.04850	-.23670	.15430	-.06900	.02350	.04210
GRADIENT		.00067	-.00034	-.02455	.01692	-.00770	.00010	-.00014

RUN NO. 1102/ 0 RN/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
1.045	-10.000	.10710	-.06960	.24090	-.15670	.09000	.03670	.03450
1.045	-9.000	.11930	-.07590	.19210	-.12780	.06820	.06060	.03290
1.045	-8.000	.13760	-.08670	.13370	-.09370	.05020	.06610	.03130
1.045	-7.000	.14800	-.09270	.09940	-.05900	.03390	.06930	.02970
1.045	-6.000	.15900	-.09990	.04010	-.02380	.01640	.06900	.02840
1.045	-5.000	.16490	-.10380	-.00780	.00660	-.00090	.06860	.02810
1.045	-4.000	.16220	-.10280	-.03340	.03920	-.01910	.06760	.02890
1.045	-3.000	.15210	-.09540	-.10370	.07430	-.03310	.06690	.03100
1.045	-2.000	.13960	-.08680	-.15760	.10920	-.05160	.06410	.03290
1.045	-1.000	.12340	-.07720	-.20790	.14120	-.06730	.06130	.03470
1.045	0.000	.11420	-.07390	-.25590	.17020	-.08240	.05630	.03710
GRADIENT		.00057	-.00042	-.02419	.01639	-.00461	-.00033	.00014



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TABULATED SOURCE DATA - MSFC 370

PAGE 33

MSFC 370 (1A31F) (C3) / (T9) / (S3/2) / (S3/2)

(R03007) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF16 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CE91NC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1101/ 1 RVL = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	.07520	-.05260	.23600	-.14410	.06690	.07450	.04710
1.246	-8.000	.07150	-.04530	.18310	-.11350	.06940	.07940	.04390
1.246	-6.000	.07340	-.04260	.13430	-.08400	.05250	.08290	.04170
1.246	-4.000	.08030	-.04440	.09610	-.05340	.03500	.09360	.03990
1.246	-2.000	.08720	-.04710	.05930	-.02270	.01780	.09660	.03860
1.246	.000	.08940	-.04990	-.05530	.00690	.00070	.09610	.03840
1.246	2.000	.08960	-.04920	-.04880	.03450	-.01580	.09570	.04000
1.246	4.000	.08380	-.04710	-.09510	.06520	-.03380	.09490	.04270
1.246	6.000	.07690	-.04490	-.14310	.09610	-.05160	.09340	.04390
1.246	8.000	.07240	-.04550	-.19320	.12690	-.06880	.09020	.04600
1.246	10.000	.07800	-.03370	-.24350	.15530	-.09520	.07590	.04790
	GRADIENT	.00047	-.00037	-.02252	.01472	-.00956	-.00011	.00033

RUN NO. 1100/ 0 RVL = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.10920	-.07980	.21960	-.13580	.07770	.07890	.04030
1.465	-8.000	.10080	-.08870	.17020	-.10690	.06120	.08410	.03740
1.465	-6.000	.09860	-.08220	.12420	-.07860	.04500	.08910	.03440
1.465	-4.000	.09960	-.05980	.07970	-.05020	.02900	.08990	.03090
1.465	-2.000	.10320	-.06080	.03630	-.02210	.01400	.09070	.02830
1.465	.000	.10340	-.06250	-.00660	.00590	-.00010	.09060	.02840
1.465	2.000	.10610	-.06300	-.04880	.03320	-.01350	.09020	.02920
1.465	4.000	.10410	-.06280	-.09280	.06160	-.03010	.08900	.03320
1.465	6.000	.10260	-.06480	-.13830	.09110	-.04690	.08790	.03740
1.465	8.000	.10690	-.07270	-.18660	.12040	-.06300	.08420	.04120
1.465	10.000	.11630	-.08450	-.23710	.14950	-.07870	.08060	.04170
	GRADIENT	.00060	-.00041	-.02150	.01394	-.00728	-.00011	.00027

MSFC 570 (1A31F) (03)/(T9)/(S3/2)/(S3/2)

(093/07) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SO. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = .000 COEF10 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRIBING = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1142/ 0 RVL = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.983	-10.000	.06740	-.04330	.21810	-.13370	.07220	.07250	.02430
1.983	-8.000	.06140	-.03370	.16620	-.10230	.05550	.07910	.02590
1.983	-6.000	.05640	-.02780	.12040	-.07410	.04040	.08210	.02530
1.983	-4.000	.05290	-.02250	.07650	-.04650	.02350	.08270	.02470
1.983	-2.000	.05240	-.01950	.03550	-.02090	.01150	.08340	.02350
1.983	.000	.05090	-.01600	-.00490	.00460	-.00090	.08710	.02290
1.983	2.000	.05420	-.01940	.03130	-.01440	.00920	.08410	.02410
1.983	4.000	.05020	-.01890	.00430	.00160	-.02940	.09090	.02740
1.983	6.000	.05400	-.02460	-.13910	.09970	-.04430	.09920	.02930
1.983	8.000	.05450	-.03650	-.19400	.11700	-.05950	.08590	.03040
1.983	10.000	.07310	-.04710	-.23330	.14650	-.07320	.08240	.03160
GRADIENT		-.00019	.00037	-.02120	.01342	-.00540	.00106	.00030

RUN NO. 1061/ 0 RVL = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.02800	-.01250	.18790	-.11410	.06010	.07930	.01640
2.990	-8.000	.01610	-.00270	.14650	-.09930	.04720	.07940	.01650
2.990	-6.000	.00450	.00710	.10690	-.05530	.03470	.07950	.01630
2.990	-4.000	.00210	.01200	.07070	-.04330	.02310	.07940	.01530
2.990	-2.000	.00350	.01320	.03520	-.02110	.01160	.09040	.01470
2.990	.000	.00090	.01490	-.00120	.00160	-.00030	.09100	.01470
2.990	2.000	-.00040	.01560	-.03590	.02330	-.01160	.09090	.01490
2.990	4.000	.00030	.01420	-.07090	.04550	-.02290	.09520	.01540
2.990	6.000	.00160	.01090	-.10870	.06970	-.03500	.07940	.01690
2.990	8.000	.00690	.00430	-.14980	.09320	-.04770	.07910	.01650
2.990	10.000	.01690	-.00590	-.19330	.12020	-.05130	.07990	.01690
GRADIENT		-.00037	.00034	-.01771	.01110	-.00576	.00010	.00002



MSFC 370 (1A31F) (G3) / (T9) / (S3/2) / (S3/2)

(R83027) (14 SEP 75)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1562/ 0 RN/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.02010	-.00870	.19210	-.11040	.05590	.08100	.01330
3.480	-8.000	.00760	.00120	.14120	-.08580	.04350	.07970	.01290
3.480	-6.000	-.00050	.00920	.10430	-.06360	.03230	.07940	.01240
3.480	-4.000	-.00260	.01320	.07010	-.04300	.02180	.07880	.01170
3.480	-2.000	-.00380	.01540	.03500	-.02110	.01090	.07870	.01110
3.480	.000	-.00510	.01650	.00040	.00070	.00030	.07900	.01080
3.480	2.000	-.00560	.01680	-.03310	.02180	-.00990	.07930	.01110
3.480	4.000	-.00440	.01530	-.06900	.04390	-.02080	.07960	.01150
3.480	6.000	-.00150	.01140	-.10460	.06650	-.03230	.07990	.01200
3.480	8.000	.00220	.00610	-.14360	.09020	-.04420	.07990	.01290
3.480	10.000	.01040	-.00150	-.18400	.11590	-.05650	.08110	.01370
	GRADIENT	-.00027	.00028	-.01721	.01083	-.00530	.00011	-.00002

RUN NO. 1063/ 0 RN/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	.00930	-.00030	.15630	-.09570	.04740	.08340	.00480
4.960	-8.000	.00310	.00490	.12150	-.07400	.03650	.08080	.00510
4.960	-6.000	-.00300	.01010	.08860	-.05370	.02650	.07820	.00520
4.960	-4.000	-.00770	.01390	.05770	-.03490	.01730	.07680	.00510
4.960	-2.000	-.01060	.01540	.02790	-.01660	.00820	.07670	.00460
4.960	.000	-.01240	.01690	.00000	.00090	.00000	.07650	.00440
4.960	2.000	-.01040	.01620	-.02760	.01820	-.00900	.07720	.00440
4.960	4.000	-.00980	.01520	-.05790	.03710	-.01740	.07810	.00470
4.960	6.000	-.00550	.01150	-.08930	.05670	-.02680	.07910	.00480
4.960	8.000	.00190	.00570	-.12240	.07730	-.03680	.08160	.00480
4.960	10.000	.00070	.00430	-.16050	.10110	-.04920	.08590	.00550
	GRADIENT	-.00020	.00018	-.01433	.00894	-.00428	.00015	-.00005

MSFC 570 (1A31F) (031)/(19)/(53/2)/(53/2)

(R43004) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = -.000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1106/ 1 RVL = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.18080	-.13280	.19970	-.12510	.06840	.01480	.03910
.900	-9.000	.18420	-.12990	.15620	-.10190	.05380	.01720	.03640
.900	-8.000	.19170	-.13080	.11410	-.07660	.04160	.01980	.03310
.900	-6.000	.19680	-.13070	.06490	-.04340	.02550	.02290	.03330
.900	-2.000	.20110	-.12930	.01990	-.01260	.01090	.02730	.03090
.900	.000	.20440	-.12990	-.02550	.01870	-.00400	.02930	.02990
.900	2.000	.20810	-.13260	-.06750	.04790	-.01720	.02900	.02930
.900	4.000	.19940	-.13330	-.10930	.07630	-.03100	.02330	.03160
.900	6.000	.19420	-.13190	-.15170	.10460	-.04490	.02300	.03350
.900	8.000	.18130	-.12730	-.18400	.12180	-.05320	.02030	.03710
.900	10.000	.17410	-.12990	-.22540	.14590	-.06590	.01490	.04250
GRADIENT		.00051	-.00043	-.02179	.01499	-.00705	.00027	-.00023

RUN NO. 1107/ 0 RVL = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	.18940	-.13000	.22370	-.14400	.07790	.04600	.03340
1.053	-9.000	.19320	-.13010	.17870	-.11770	.06300	.05260	.03110
1.053	-8.000	.20020	-.13170	.13390	-.09110	.04750	.05490	.02890
1.053	-6.000	.21060	-.13590	.09720	-.06040	.03210	.05700	.02650
1.053	-2.000	.22370	-.14600	.04970	-.02910	.01530	.05960	.02330
1.053	.000	.23400	-.15090	-.00440	.00330	.00060	.05830	.02490
1.053	2.000	.22740	-.14620	-.05020	.03620	-.01420	.05920	.02530
1.053	4.000	.21090	-.13320	-.09790	.06940	-.02330	.05790	.02790
1.053	6.000	.19360	-.12490	-.14310	.10010	-.04430	.05540	.03170
1.053	8.000	.18390	-.12160	-.19460	.12570	-.05950	.05140	.03520
1.053	10.000	.16990	-.13010	-.22990	.15030	-.07350	.05030	.03910
GRADIENT		.00011	.00016	-.02305	.01623	-.00766	.00006	.00013

MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R63009) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF16 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SER = .000 CRGINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1108/ 0 RVL = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	.21470	-.15580	.20780	-.12170	.07980	.07270	.04910
1.248	-8.000	.21210	-.14800	.16330	-.09930	.06470	.07720	.04760
1.248	-6.000	.21920	-.14730	.12280	-.07760	.04980	.09010	.04680
1.248	-4.000	.22980	-.15200	.07780	-.04980	.03270	.08170	.04590
1.248	2.000	.23110	-.14750	-.04050	.02720	-.01340	.08410	.04510
1.248	.000	.23420	-.14970	-.00030	.00070	.00260	.08440	.04370
1.248	-2.000	.23560	-.15280	.03590	-.02290	.01690	.09390	.04230
1.248	4.000	.22350	-.14440	-.08300	.05380	-.03030	.08470	.03930
1.248	6.000	.21360	-.14230	-.12480	.08230	-.04660	.08310	.03220
1.248	8.000	.21280	-.14720	-.16690	.10760	-.08230	.07980	.03390
1.248	10.000	.22210	-.16040	-.21210	.12970	-.07720	.07360	.03370
	GRADIENT	-.00085	.00102	-.01990	.01304	-.00783	.00031	.00074

RUN NO. 1099/ 0 RVL = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.464	-10.000	.23630	-.17670	.19710	-.11320	.07190	.07470	.03960
1.464	-8.000	.23660	-.17090	.14920	-.08950	.05600	.09060	.03590
1.464	-6.000	.24350	-.17110	.10700	-.06520	.04110	.09360	.03400
1.464	-4.000	.24990	-.17340	.06670	-.04040	.02630	.09520	.03210
1.464	-2.000	.26160	-.17890	.02940	-.01640	.01230	.09680	.03160
1.464	.000	.26330	-.17670	-.00840	.00710	-.00090	.09660	.03120
1.464	2.000	.26040	-.17940	-.04600	.03160	-.01430	.09620	.03310
1.464	4.000	.25740	-.17770	-.08090	.03390	-.02760	.08600	.03390
1.464	6.000	.24790	-.17470	-.12130	.07930	-.04270	.08470	.03960
1.464	8.000	.25320	-.18300	-.16350	.10340	-.05720	.08140	.04200
1.464	10.000	.26100	-.19400	-.21220	.13080	-.07320	.07630	.04330
	GRADIENT	.00069	-.00046	-.01848	.01183	-.00676	.00003	.00045

MSFC 570 (TA31F) (G3)/(T9)/(S3/2)/(S3/2)

(R53005) (14 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 3.000 CONF10 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBLIC = -.500
 SPACER = .000 SPACIA = .000
 SPAGAP = .000

RUN NO. 1065/ 0 RW/L = 4.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.07850	-.03390	.17220	-.10400	.03720	.06550	.01790
2.990	-8.000	.06920	-.04590	.13350	-.09060	.04470	.06690	.01700
2.990	-6.000	.06340	-.04030	.09630	-.03770	.03220	.06910	.01550
2.990	-4.000	.06010	-.03700	.06190	-.03670	.02050	.06950	.01370
2.990	-2.000	.05990	-.03570	.02930	-.01660	.00390	.06920	.01470
2.990	.000	.06200	-.03650	-.00110	.00190	.00000	.06970	.01450
2.990	2.000	.06450	-.03990	.03030	.01970	-.00940	.06940	.01590
2.990	4.000	.06490	-.04030	-.06030	.03930	-.01910	.06910	.01370
2.990	6.000	.06260	-.04050	-.09420	.05900	-.03040	.06890	.01540
2.990	8.000	.06500	-.04390	-.13210	.08210	-.04290	.06820	.01590
2.990	10.000	.07990	-.05490	-.17120	.10630	-.05350	.06670	.01760
GRADIENT		.00071	-.00049	-.01319	.00931	-.00492	.00006	.00001

RUN NO. 1064/ 0 RW/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.06690	-.04450	.15900	-.09570	.03260	.06420	.01370
3.480	-8.000	.05600	-.03640	.12250	-.07370	.04090	.06470	.01340
3.480	-6.000	.04710	-.02920	.08970	-.04270	.02930	.06500	.01300
3.480	-4.000	.04390	-.02590	.05730	-.03380	.01890	.06490	.01240
3.480	-2.000	.04450	-.02490	.02760	-.01570	.00910	.06550	.01140
3.480	.000	.04410	-.02390	.00010	.00090	.00000	.06600	.01120
3.480	2.000	.04500	-.02470	-.02690	.01750	-.00940	.06570	.01140
3.480	4.000	.04490	-.02590	-.05550	.03510	-.01760	.06580	.01190
3.480	6.000	.04560	-.02790	-.08620	.05370	-.02770	.06590	.01270
3.480	8.000	.05160	-.03330	-.12020	.07460	-.03910	.06500	.01310
3.480	10.000	.05990	-.04050	-.15800	.09790	-.05150	.06450	.01390
GRADIENT		.00014	.00002	-.01400	.00855	-.00451	.00010	-.00005

MSCF 370 (1A31F) (G3) / (T9) / (S3/2) / (S3/2)

(1A3209) (21 SEP 73)

REFERENCE DATA

SREF = 0.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1111/ 0 RN/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.19950	-.14260	.21170	-.13390	.06900	.02010	.03770
.900	-8.000	.20690	-.14300	.16940	-.11110	.05730	.02360	.03330
.900	-6.000	.21390	-.14340	.12510	-.08390	.04440	.02720	.03400
.900	-4.000	.22020	-.14460	.07830	-.05290	.02990	.02990	.03290
.900	-2.000	.22390	-.14410	.03320	-.02180	.01330	.03260	.03060
.900	.000	.22540	-.14370	-.01100	.00980	.00990	.03430	.02990
.900	2.000	.22690	-.14580	-.05390	.03930	-.01320	.03390	.02970
.900	4.000	.22360	-.14630	-.09390	.06710	-.02710	.03120	.03230
.900	6.000	.21600	-.14470	-.14030	.09710	-.04120	.02820	.03490
.900	8.000	.21160	-.14570	-.19230	.12330	-.05390	.02590	.03780
.900	10.000	.21410	-.15210	-.21590	.13900	-.06300	.02240	.04290
GRADIENT	.00049	-.00025	-.00025	-.02179	.01500	-.00712	.00020	-.00009

RUN NO. 1110/ 0 RN/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	.23040	-.15520	.22290	-.14360	.07780	.05330	.03420
1.050	-8.000	.22890	-.15030	.17930	-.12010	.06310	.05650	.03140
1.050	-6.000	.23570	-.15210	.13630	-.09430	.04840	.05940	.02900
1.050	-4.000	.24770	-.15840	.09020	-.06340	.03240	.06190	.02900
1.050	-2.000	.25650	-.16330	.04340	-.03070	.01620	.06400	.02600
1.050	.000	.26050	-.16360	-.00300	.00240	.00020	.06440	.02420
1.050	2.000	.26110	-.16640	-.04910	.03300	-.01530	.06350	.02610
1.050	4.000	.25530	-.16330	-.09330	.06730	-.03080	.06260	.02990
1.050	6.000	.24420	-.15700	-.13960	.09730	-.04590	.06150	.03110
1.050	8.000	.23380	-.15270	-.18230	.12430	-.06040	.05740	.03470
1.050	10.000	.22400	-.15140	-.22830	.13240	-.07540	.04910	.03760
GRADIENT	.00099	-.00065	-.00065	-.02317	.01635	-.00789	.00005	.00008

MSFC 370 (1A31F) (03)/(79)/(53/2)/(53/2)

(195009) (21 SEP 75)

REFERENCE DATA

SREF = 6.1980 30. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIC = 100.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 GRDINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1109/ 0 RVL = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	.26470	-.18640	.20210	-.11990	.07780	.07820	.04720
1.248	-8.000	.26350	-.18030	.15750	-.09720	.06280	.06300	.04340
1.248	-6.000	.27170	-.18220	.11430	-.07230	.04710	.04990	.04340
1.248	-4.000	.27950	-.18440	.07240	-.04620	.03110	.05790	.04250
1.248	-2.000	.28370	-.18320	.03200	-.02010	.01540	.08840	.04250
1.248	.000	.28690	-.18640	-.00560	.00420	.00020	.08830	.04350
1.248	2.000	.28480	-.19300	-.04390	.02940	-.01320	.08870	.04660
1.248	4.000	.27750	-.19170	-.08570	.05720	-.03190	.08890	.04910
1.248	6.000	.27130	-.18070	-.12710	.09350	-.04770	.08690	.05090
1.248	8.000	.26900	-.18280	-.16810	.10710	-.06250	.08290	.05290
1.248	10.000	.26690	-.18910	-.21260	.13030	-.07750	.07990	.05320
GRADIENT	-.00014	.00028	.00028	-.01960	.01291	-.00792	.00013	.00067

RUN NO. 1099/ 0 RVL = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	.29960	-.21120	.19370	-.11410	.07240	.09090	.03910
1.467	-8.000	.29250	-.20780	.14650	-.08820	.05640	.08630	.03650
1.467	-6.000	.30240	-.21030	.10310	-.06270	.04140	.09010	.03400
1.467	-4.000	.30810	-.21090	.06500	-.03940	.02710	.09250	.03190
1.467	-2.000	.31630	-.21420	.02930	-.01650	.01330	.09450	.03020
1.467	.000	.31980	-.21520	-.00740	.00590	-.00030	.09410	.02920
1.467	2.000	.31830	-.21580	-.04290	.02910	-.01400	.09430	.03180
1.467	4.000	.31550	-.21450	-.08900	.05340	-.02850	.09240	.03340
1.467	6.000	.30360	-.21200	-.11790	.07690	-.04290	.09090	.03880
1.467	8.000	.31210	-.22130	-.16040	.10110	-.05790	.08710	.04130
1.467	10.000	.31870	-.23100	-.21030	.12960	-.07460	.08250	.04310
GRADIENT	.00064	-.00045	-.00045	-.01908	.01156	-.00692	-.00002	.00043

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03)/(T9)/(S3/2)/(S3/2)

(R03C09) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFTG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1066/ 0 RV/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.980	-10.000	.10930	-.07430	.17010	-.10250	.05840	.06700	.01780
2.990	-8.000	.09780	-.06450	.13100	-.07870	.04530	.06920	.01690
2.990	-6.000	.08770	-.05640	.09420	-.05640	.03230	.06910	.01620
2.990	-4.000	.08720	-.05420	.06040	-.03380	.02090	.06990	.01550
2.990	-2.000	.08740	-.05280	.02860	-.01620	.01010	.07020	.01450
2.990	.000	.08980	-.05390	-.00080	.00160	.00020	.07080	.01440
2.990	2.000	.09300	-.05630	-.03020	.01960	-.00940	.07070	.01500
2.990	4.000	.08970	-.05560	-.06120	.03990	-.01990	.07030	.01580
2.990	6.000	.08850	-.05640	-.09420	.05890	-.03120	.07000	.01630
2.990	8.000	.09390	-.06150	-.12990	.08060	-.04320	.06960	.01670
2.990	10.000	.10350	-.06920	-.16960	.10410	-.05610	.06940	.01690
GRADIENT		.00053	-.00031	-.01510	.00925	-.00305	.00010	.00005

RUN NO. 1067/ 0 RV/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.08980	-.06010	.15650	-.09390	.05330	.05570	.01370
3.480	-8.000	.07820	-.05110	.11990	-.07160	.04090	.06610	.01350
3.480	-6.000	.07150	-.04490	.08690	-.05170	.02960	.06600	.01300
3.480	-4.000	.06970	-.04200	.05650	-.03310	.01910	.06600	.01240
3.480	-2.000	.06980	-.04040	.02750	-.01510	.00940	.06660	.01150
3.480	.000	.06950	-.03930	-.00020	.00120	.00050	.06750	.01110
3.480	2.000	.06940	-.03960	-.02750	.01760	-.00450	.06660	.01140
3.480	4.000	.06810	-.04010	-.05560	.03500	-.01800	.06660	.01220
3.480	6.000	.06940	-.04290	-.08580	.05340	-.02810	.06670	.01290
3.480	8.000	.07610	-.04940	-.11930	.07390	-.03940	.06630	.01320
3.480	10.000	.08370	-.05540	-.15680	.09690	-.05190	.06600	.01350
GRADIENT		-.00018	.00023	-.01388	.00944	-.00460	.00006	-.00003

MSFC 370 (1A31F) (G3)/(T9)/(S3/2)/(S3/2)

(R83010) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 GEBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1112/ 0 RM/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.000	.25120	-.17640	.21810	-.13700	.07190	.02560	.03770
.998	-9.000	.23910	-.17630	.17630	-.11470	.06020	.02540	.03550
.998	-8.000	.26190	-.17470	.13200	-.09930	.04740	.03210	.03450
.998	-7.000	.27320	-.17740	.09660	-.05960	.03290	.03490	.03310
.998	-6.000	.27620	-.17860	.04370	-.02930	.01890	.03140	.03100
.998	-5.000	.27720	-.17730	.00040	.00040	.00440	.03960	.02920
.998	-4.000	.26930	-.17810	-.13070	.09140	-.03990	.03390	.03470
.998	-3.000	.27650	-.17970	-.08390	.05900	-.02350	.03650	.03210
.998	-2.000	.27910	-.17460	-.04190	.03010	-.00960	.03960	.02970
.998	-1.000	.26450	-.17740	-.17450	.11960	-.05250	.03260	.03710
.998	0.000	.26310	-.18060	-.20490	.13320	-.06010	.02990	.04000
GRADIENT		-.00002	-.00012	-.02159	.01492	-.00715	-.00012	.00017

RUN NO. 1113/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	.23890	-.19570	.21600	-.13940	.07690	.06040	.03420
1.049	-9.000	.29670	-.19330	.17280	-.11580	.06250	.06190	.03130
1.049	-8.000	.30310	-.19300	.12960	-.08920	.04800	.06400	.02910
1.049	-7.000	.31290	-.19990	.08490	-.04920	.03210	.06670	.02830
1.049	-6.000	.31770	-.20160	.03960	-.02770	.01590	.06950	.02640
1.049	-5.000	.31970	-.20190	-.00630	.00490	-.00060	.07040	.02460
1.049	-4.000	.32110	-.20330	-.03100	.03690	-.01600	.06840	.02640
1.049	-3.000	.31750	-.20220	-.09500	.06730	-.03130	.06710	.02980
1.049	-2.000	.30850	-.19720	-.13900	.09720	-.04700	.05590	.03240
1.049	-1.000	.29990	-.19380	-.18280	.12330	-.06170	.05260	.03570
1.049	0.000	.29230	-.19360	-.22860	.13340	-.07640	.05330	.03990
GRADIENT		.00063	-.00032	-.02232	.01586	-.00794	.00001	.00015

MSFC 570 (1A31F) (03)/(19)/(53/2)/(53/2)

(R03010) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR9INC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1114/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	.31970	-.22160	.20110	-.11940	.07730	.08420	.04710
1.250	-9.000	.31940	-.21650	.19620	-.09630	.06290	.05940	.04460
1.250	-8.000	.33000	-.22060	.11310	-.07140	.04730	.09250	.04240
1.250	-4.000	.33900	-.22390	.07090	-.04900	.03120	.09460	.04170
1.250	-2.000	.34200	-.22490	.03110	-.01920	.01560	.09490	.04240
1.250	.000	.34610	-.22670	-.00600	.00460	.00050	.09490	.04310
1.250	2.000	.34310	-.22430	-.04210	.02760	-.01440	.09570	.04540
1.250	4.000	.33500	-.21970	-.09190	.05410	-.03040	.09370	.04930
1.250	6.000	.32990	-.21870	-.12260	.08030	-.04630	.09390	.05040
1.250	8.000	.32680	-.22060	-.16250	.10340	-.06120	.09010	.05250
1.250	10.000	.32390	-.22340	-.20710	.12720	-.07590	.08650	.05390
	GRADIENT	-.00024	.00044	-.01893	.01226	-.00766	.00016	.00091

RUN NO. 1097/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.34660	-.24740	.19070	-.11300	.07210	.08750	.04020
1.465	-9.000	.34710	-.24290	.14380	-.08690	.05620	.09350	.03750
1.465	-8.000	.35840	-.24650	.10110	-.06140	.04140	.09610	.03340
1.465	-4.000	.36790	-.25000	.06290	-.03910	.02740	.10050	.03160
1.465	-2.000	.37270	-.25110	.02690	-.01550	.01340	.10200	.02990
1.465	.000	.37470	-.25130	-.00740	.00610	-.00020	.10200	.02960
1.465	2.000	.37540	-.25300	-.04220	.02870	-.01430	.10200	.03190
1.465	4.000	.37170	-.25260	-.07970	.03310	-.02890	.10040	.03350
1.465	6.000	.36320	-.25050	-.11650	.07630	-.04320	.09930	.03900
1.465	8.000	.37160	-.25920	-.15900	.10060	-.05840	.09390	.04180
1.465	10.000	.37470	-.26630	-.20860	.12910	-.07320	.09090	.04390
	GRADIENT	.00052	-.00036	-.01771	.01133	-.00701	-.00001	.00049

MSFC 570(1A31F)(G3)/(T9)/(S3/2)/(S3/2)

(R83010) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.9490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COARFIC = 100.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CFBINC = 1.000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1089/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
2.990	-10.000	.13160	-.08900	.16640	-.08900	.05820	.07060	.01760
2.990	-8.000	.12230	-.08040	.12920	-.07670	.04900	.07100	.01710
2.990	-6.000	.11710	-.07510	.09190	-.05490	.03240	.07150	.01660
2.990	-4.000	.11410	-.07170	.05900	-.03430	.02040	.07190	.01550
2.990	-2.000	.11450	-.06990	.02760	-.01550	.01030	.07150	.01440
2.990	.000	.11670	-.07020	-.00130	.00200	.00030	.07230	.01420
2.990	2.000	.11590	-.07040	-.03090	.01990	-.00990	.07240	.01490
2.990	4.000	.11390	-.07060	-.06110	.03840	-.02040	.07200	.01390
2.990	6.000	.11590	-.07340	-.09340	.05810	-.03140	.07200	.01690
2.990	8.000	.12090	-.07930	-.12980	.07960	-.04340	.07170	.01720
2.990	10.000	.12610	-.08420	-.16770	.10300	-.05640	.07070	.01700
GRADIENT		.00005	.00008	-.01483	.00904	-.00513	.00005	.00007

RUN NO. 1089/ 0 RIVL = 6.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
3.480	-10.000	.10980	-.07310	.15380	-.09190	.03320	.06860	.01360
3.480	-8.000	.10190	-.06640	.11800	-.07030	.04090	.06930	.01330
3.480	-6.000	.09490	-.06040	.08510	-.05060	.02930	.06900	.01310
3.480	-4.000	.09310	-.05760	.05500	-.03240	.01900	.06920	.01210
3.480	-2.000	.09570	-.05710	.02640	-.01480	.00350	.06950	.01110
3.480	.000	.09650	-.05560	-.00070	.00150	.00030	.06930	.01090
3.480	2.000	.09520	-.05610	-.02730	.01790	-.00650	.06920	.01130
3.480	4.000	.09430	-.05660	-.05540	.03310	-.01810	.06950	.01220
3.480	6.000	.09620	-.05970	-.09530	.05310	-.02830	.06860	.01290
3.480	8.000	.10000	-.06410	-.11950	.07300	-.03990	.06900	.01320
3.480	10.000	.10330	-.06780	-.15430	.09500	-.05220	.06900	.01390
GRADIENT		.00009	.00015	-.01373	.00839	-.00461	.00006	.00002

MSFC 570 (1A31F) (03)/(T9)/(S3/2)/(S3/2)

(R03011) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFTC = 100.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1117/ 0 RVL = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.898	-10.000	.16990	-.12290	.21270	-.13630	.07170	.01630	.03830
.898	-8.000	.17300	-.12050	.17100	-.11320	.03960	.02030	.03390
.898	-6.000	.17820	-.12020	.12660	-.08390	.04600	.02240	.03390
.898	-4.000	.18380	-.12170	.09010	-.05440	.03990	.02400	.03220
.898	-2.000	.18890	-.12070	.03440	-.02300	.01560	.02670	.02990
.898	.000	.19310	-.12190	-.01050	.00930	.00050	.02890	.02790
.898	2.000	.19650	-.12530	-.03330	.03930	-.01390	.02970	.02910
.898	4.000	.19180	-.12590	-.09620	.06790	-.02930	.02600	.03070
.898	6.000	.18470	-.12260	-.14050	.09820	-.04310	.02350	.03360
.898	8.000	.17990	-.12260	-.19220	.12440	-.08630	.02190	.03650
.898	10.000	.17610	-.12570	-.21740	.14210	-.06570	.01830	.04110
GRADIENT	.00098	.00036	-.02202	.01529	-.00738	.00030	.00023	-.00023

RUN NO. 1116/ 0 RVL = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.053	-10.000	.20680	-.13990	.22370	-.14390	.09040	.04820	.03450
1.053	-8.000	.21530	-.14180	.17820	-.11950	.06570	.05420	.03140
1.053	-6.000	.22540	-.14740	.13470	-.09270	.05030	.05590	.02890
1.053	-4.000	.23670	-.15900	.08780	-.06110	.03370	.05710	.02690
1.053	-2.000	.24680	-.16060	.04090	-.02900	.01690	.05960	.02520
1.053	.000	.25300	-.16350	-.00440	.00390	.00100	.05960	.02400
1.053	2.000	.24930	-.16130	-.04970	.03610	-.01490	.05910	.02590
1.053	4.000	.23750	-.15310	-.09600	.06890	-.03090	.05790	.02930
1.053	6.000	.22390	-.14350	-.14220	.10070	-.04670	.05660	.03190
1.053	8.000	.21080	-.13610	-.19690	.12920	-.06220	.05420	.03460
1.053	10.000	.20110	-.13200	-.23090	.15520	-.07790	.05240	.03700
GRADIENT	.00021	.00015	-.02291	.01620	-.00804	.00006	.00027	-.00027

MSFC 570(1A31F)(03)/(19)/(53/2)/(53/2)

(R85011) (21 SEP 73)

REFERENCE DATA

SREF = 0.1990 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFIG = 100.000
DELTAZ = .280 RUDDER = .000
X-SFB = .000 CRIBING = -.500
SPACER = .000 SPACIA = .000
SPAGAP = .000

RUN NO. 1115/ 0 RNL = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAD
1.250	-10.000	.23240	-.16490	.20440	-.12330	.03920	.07240	.04770
1.250	-8.000	.23590	-.16150	.19960	-.09950	.06400	.07590	.04530
1.250	-6.000	.24330	-.16300	.11790	-.07570	.04970	.07960	.04520
1.250	-4.000	.25040	-.16570	.07490	-.04840	.03220	.06140	.04340
1.250	-2.000	.25570	-.16680	.03370	-.02120	.01620	.04330	.04070
1.250	.000	.25710	-.16590	-.00320	.00290	.00150	.04390	.04070
1.250	2.000	.25350	-.16330	-.04090	.02760	-.01390	.04350	.04330
1.250	4.000	.24730	-.16030	-.08290	.05590	-.03070	.04320	.04590
1.250	6.000	.24190	-.15990	-.12540	.09390	-.04740	.04170	.05050
1.250	8.000	.23960	-.16230	-.16720	.10970	-.06290	.07420	.05290
1.250	10.000	.23990	-.16950	-.21100	.13160	-.07790	.07220	.05450
GRADIENT		-.00042	.00069	-.01950	.01267	-.00779	.00019	.00047

RUN NO. 1096/ 0 RNL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAD
1.465	-10.000	.23280	-.17090	.19420	-.11640	.07170	.07500	.04150
1.465	-8.000	.23150	-.16360	.14950	-.09170	.03540	.09050	.03950
1.465	-6.000	.23440	-.16090	.10700	-.06670	.04110	.09390	.03550
1.465	-4.000	.24180	-.16370	.05740	-.04210	.02670	.09320	.03330
1.465	-2.000	.25210	-.16930	.00010	-.01900	.01320	.09510	.03150
1.465	.000	.25540	-.17140	-.00550	.00600	.00000	.09630	.03090
1.465	2.000	.25390	-.17110	-.04360	.03020	-.01330	.09390	.03230
1.465	4.000	.25000	-.15900	-.09110	.05490	-.02720	.09370	.03370
1.465	6.000	.24420	-.16760	-.12090	.09000	-.04240	.09470	.03740
1.465	8.000	.24690	-.17370	-.15290	.10460	-.03740	.09150	.04140
1.465	10.000	.25280	-.19350	-.21070	.13170	-.07390	.07720	.04420
GRADIENT		.00091	-.00062	-.01953	.01210	-.00671	.00004	.00009

MSFC 370 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R03011) (21 SEP 73)

REFERENCE DATA

SREF = 0.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFTC = 100.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1070/ 0 RV/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.07200	-.04850	.17030	-.10300	.05910	.06820	.01830
2.990	-8.000	.06600	-.04250	.13110	-.07910	.04540	.06910	.01900
2.990	-6.000	.06260	-.03870	.09400	-.05660	.03220	.06950	.01760
2.990	-4.000	.06200	-.03670	.06070	-.03630	.02070	.06950	.01690
2.990	-2.000	.06300	-.03540	.02880	-.01660	.01010	.07040	.01610
2.990	.000	.06630	-.03630	-.00050	.00140	.00040	.07110	.01600
2.990	2.000	.06610	-.03660	-.03000	.01960	-.00940	.07070	.01670
2.990	4.000	.06380	-.03700	-.06110	.03890	-.02010	.07040	.01740
2.990	6.000	.06410	-.03900	-.09480	.05930	-.03190	.07030	.01820
2.990	8.000	.06580	-.04180	-.13140	.08170	-.04450	.06990	.01860
2.990	10.000	.06940	-.04560	-.16900	.10480	-.05740	.06930	.01950
2.990	GRADIENT	.00033	-.00009	-.01312	.00933	-.00305	.00010	.00008

RUN NO. 1071/ 0 RV/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.05860	-.03910	.15890	-.09590	.05420	.06660	.01440
3.480	-8.000	.05190	-.03270	.12250	-.07390	.04160	.06700	.01410
3.480	-6.000	.04570	-.02710	.08830	-.05390	.02970	.06710	.01390
3.480	-4.000	.04460	-.02460	.05720	-.03440	.01920	.06660	.01350
3.480	-2.000	.04660	-.02370	.02810	-.01630	.00950	.06690	.01290
3.480	.000	.04750	-.02310	.00040	.00070	.00040	.06730	.01230
3.480	2.000	.04810	-.02390	-.02770	.01840	-.00870	.06740	.01260
3.480	4.000	.04940	-.02520	-.05700	.03660	-.01940	.06770	.01330
3.480	6.000	.04910	-.02700	-.08800	.05520	-.02890	.06800	.01390
3.480	8.000	.05040	-.03070	-.12240	.07610	-.04070	.06810	.01430
3.480	10.000	.05610	-.03620	-.15940	.09900	-.05340	.06790	.01470
3.480	GRADIENT	.00045	-.00007	-.01421	.00953	-.00467	.00014	-.00003

MSFC 570(1A31F)(03)/(79)/(33/2)/(33/2)

(093012) (21 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF1G = 100.000
DELTA2 = .290 RUDDER = .000
X-SRB = .000 OPDINC = .300
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 1119/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	.20000	-.14120	.21450	-.13750	.07270	.01960	.03320
.898	-8.000	.20500	-.14050	.17460	-.11570	.06110	.02350	.03320
.898	-6.000	.21190	-.14090	.13150	-.08920	.04900	.02650	.03360
.898	-4.000	.21680	-.14130	.08470	-.05770	.03290	.02890	.03200
.898	-2.000	.21930	-.14020	.03940	-.02660	.01720	.02390	.02790
.898	.000	.22230	-.14040	-.00430	.00390	.00240	.03260	.02790
.898	2.000	.22440	-.14270	-.04770	.03420	-.01230	.03170	.02850
.898	4.000	.22320	-.14420	-.09160	.06470	-.02730	.02940	.03110
.898	6.000	.21990	-.14450	-.13720	.09640	-.04290	.02770	.03360
.898	8.000	.21350	-.14500	-.17960	.12330	-.05610	.02510	.03650
.898	10.000	.21100	-.14630	-.21250	.13900	-.06470	.02150	.03990
GRADIENT		.00090	-.00041	-.02198	.01528	-.00745	.00011	-.00016

RUN NO. 1119/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	.23930	-.15940	.22420	-.14730	.09090	.05450	.03390
1.048	-8.000	.24410	-.15910	.17950	-.12130	.06560	.05990	.03160
1.048	-6.000	.24950	-.15990	.13070	-.09520	.05030	.06030	.02950
1.048	-4.000	.25850	-.16570	.09140	-.06460	.03390	.06210	.02750
1.048	-2.000	.26930	-.17120	.04450	-.03150	.01710	.06400	.02510
1.048	.000	.27260	-.17330	-.00170	.00160	.00070	.06400	.02350
1.048	2.000	.27120	-.17250	-.04740	.03410	-.01330	.06360	.02460
1.048	4.000	.26380	-.16790	-.09430	.06730	-.03160	.06310	.02760
1.048	6.000	.25210	-.16010	-.14030	.09930	-.04760	.06150	.03100
1.048	8.000	.24120	-.15410	-.18440	.12770	-.06290	.05890	.03370
1.048	10.000	.23270	-.15190	-.23020	.15530	-.07860	.05570	.03620
GRADIENT		.00068	-.00027	-.02316	.01647	-.00817	.00004	-.00003

DATE 03 NOV 74

TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (G3) / (T9) / (S3/2) / (S3/2)

(R93012) (21 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF1G = 100.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1120/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	.26820	-.18550	.20210	-.12300	.07560	.07790	.04790
1.249	-8.000	.26820	-.18220	.19860	-.10000	.06390	.09270	.04670
1.249	-6.000	.27500	-.18330	.11710	-.07370	.04840	.08590	.04490
1.249	-4.000	.28230	-.18550	.07480	-.04990	.03230	.08790	.04240
1.249	-2.000	.28690	-.18660	.03320	-.02120	.01690	.09900	.04030
1.249	.000	.28980	-.18750	-.00440	.00350	.00280	.09900	.04070
1.249	2.000	.28820	-.18630	-.04220	.02850	-.01460	.09890	.04290
1.249	4.000	.28250	-.18370	-.09410	.05700	-.03140	.09870	.04630
1.249	6.000	.27720	-.18290	-.12620	.08450	-.04790	.09760	.04970
1.249	8.000	.27390	-.18440	-.16740	.10970	-.06300	.09450	.05200
1.249	10.000	.27280	-.18950	-.21270	.13340	-.07850	.07990	.05470
	GRADIENT	.00009	.00020	-.01966	.01306	-.00790	.00007	.00051

RUN NO. 1095/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	.29310	-.20260	.19110	-.11460	.07150	.09040	.04130
1.466	-8.000	.28360	-.19740	.14570	-.08920	.05610	.08570	.03920
1.466	-6.000	.28820	-.19660	.10390	-.06460	.04110	.08540	.03540
1.466	-4.000	.29430	-.19940	.06590	-.04090	.02690	.09020	.03280
1.466	-2.000	.30090	-.20200	.02900	-.01720	.01300	.09120	.03120
1.466	.000	.30580	-.20480	-.00680	.00570	-.00020	.09140	.03000
1.466	2.000	.30550	-.20500	.02930	-.01350	.09160	.09100	.03100
1.466	4.000	.30340	-.20460	-.08020	.05410	-.02790	.09000	.03360
1.466	6.000	.29910	-.20380	-.11910	.07860	-.04270	.08970	.03770
1.466	8.000	.29930	-.20790	-.15960	.10240	-.05760	.08690	.04140
1.466	10.000	.30300	-.21550	-.20810	.13000	-.07430	.08200	.04440
	GRADIENT	.00114	-.00077	-.01818	.01181	-.00690	-.00000	.00007

HSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R03012) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = 5.000 CMF10 = 100.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 UPSTIC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1073/ 0 RIVL = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	.09710	-.06570	.16550	-.09920	.05790	.07070	.01810
2.990	-8.000	.09180	-.06000	.12720	-.07980	.04460	.07980	.01990
2.990	-6.000	.08840	-.05600	.09200	-.05480	.03220	.07100	.01750
2.990	-4.000	.09000	-.05310	.05930	-.03490	.02070	.07110	.01690
2.990	-2.000	.09340	-.05510	.02920	-.01590	.01010	.07180	.01500
2.990	.000	.09340	-.05430	-.00060	.00150	.00030	.07250	.01590
2.990	2.000	.09260	-.05430	-.02970	.01930	-.00930	.07250	.01630
2.990	4.000	.09490	-.05710	-.05990	.03900	-.01990	.07220	.01710
2.990	6.000	.09510	-.05990	-.09220	.03740	-.03120	.07200	.01800
2.990	8.000	.09410	-.05990	-.12900	.07920	-.04390	.07190	.01850
2.990	10.000	.09950	-.06460	-.16620	.10290	-.05720	.07190	.01850
GRADIENT		.00045	-.00016	-.01491	.00904	-.00304	.00015	.00004

RUN NO. 1072/ 0 RIVL = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	.07870	-.05300	.15600	-.09320	.05390	.06890	.01440
3.480	-8.000	.07330	-.04760	.11960	-.07130	.04130	.06890	.01420
3.480	-6.000	.07080	-.04400	.08590	-.05160	.02990	.06850	.01400
3.480	-4.000	.06910	-.04100	.05560	-.03360	.01930	.06820	.01350
3.480	-2.000	.06920	-.03940	.02700	-.01530	.00930	.06860	.01260
3.480	.000	.07240	-.04000	.00090	.00050	.00060	.06900	.01190
3.480	2.000	.07310	-.04060	.02600	.01720	-.00920	.06910	.01230
3.480	4.000	.07100	-.04090	.05580	.03570	-.01840	.06940	.01320
3.480	6.000	.07140	-.04290	.08610	.05390	-.02890	.06990	.01390
3.480	8.000	.07500	-.04590	.11900	.07350	-.04020	.07010	.01420
3.480	10.000	.09040	-.05250	.15600	.09550	-.05330	.06950	.01450
GRADIENT		.00038	-.00004	-.01399	.00955	-.00455	.00015	-.00005

HSFC 570 (1A31F) (G3)/(T9)/(S3/2)/(S3/2)

(R83013) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF1G = 100.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1123/ 0 RIVL = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	.26870	-.18470	.20590	-.13190	.07160	.02610	.03790
.899	-8.000	.27220	-.18270	.16630	-.11020	.05990	.02930	.03520
.899	-6.000	.27810	-.18320	.12340	-.08330	.04630	.03250	.03390
.899	-4.000	.29460	-.19480	.07810	-.05310	.03090	.03480	.03230
.899	-2.000	.28790	-.18480	.03410	-.02290	.01570	.03660	.03020
.899	.000	.28890	-.18360	-.00910	.00730	.00080	.03790	.02970
.899	2.000	.29140	-.18630	.03230	.03770	-.01390	.03690	.02980
.899	4.000	.29080	-.18650	.09630	.06830	-.02910	.03430	.03230
.899	6.000	.29690	-.19810	.14170	.09970	-.04500	.03290	.03460
.899	8.000	.28460	-.18950	.18440	.12670	-.05890	.03110	.03730
.899	10.000	.28230	-.19350	.21990	.14420	-.06860	.02660	.04070
	GRADIENT	.00090	-.00045	-.02176	.01317	-.00745	-.00004	-.00002

RUN NO. 1122/ 0 RIVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.043	-10.000	.29810	-.19590	.21950	-.14450	.07970	.03960	.03390
1.043	-8.000	.30320	-.19630	.17520	-.11890	.06490	.0340	.03130
1.043	-6.000	.30890	-.19860	.13160	-.09160	.04980	.06490	.02920
1.043	-4.000	.31690	-.20250	.08600	-.06030	.03330	.06670	.02740
1.043	-2.000	.32300	-.20310	.04020	-.02800	.01650	.06860	.02510
1.043	.000	.32600	-.20630	-.00310	.00410	-.00010	.05900	.02370
1.043	2.000	.32640	-.20690	-.04970	.03560	-.01630	.06820	.02520
1.043	4.000	.32210	-.20490	-.09540	.06810	-.03290	.06730	.02870
1.043	6.000	.31360	-.19950	-.14140	.10020	-.04920	.06620	.03240
1.043	8.000	.30430	-.19470	-.18590	.12940	-.06460	.06350	.03320
1.043	10.000	.29600	-.19240	-.23130	.15740	-.07990	.05790	.03640
	GRADIENT	.00069	-.00032	-.02263	.01602	-.00925	.00004	.00014

(MS3013) (21 SEP 73)

MSFC 370 (1A31F) (C3) / (T9) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFC = 100.000
DELTAZ = .280 PUDDER = .000
X-SFB = .000 GRBINC = 1.500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 1121/ 0 RM/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAD
1.244	-10.000	.33260	-.22770	.19110	-.11550	.07610	.06310	.04830
1.244	-6.000	.33560	-.22570	.14910	-.09250	.06120	.05980	.04540
1.244	-6.000	.34230	-.22740	.10590	-.06810	.04590	.05290	.04410
1.244	-4.000	.34940	-.22970	.05630	-.04240	.03000	.03480	.04190
1.244	-2.000	.35370	-.23090	.02700	-.01640	.01400	.03360	.04060
1.244	.000	.35730	-.23270	-.01010	.00780	-.00120	.03360	.04040
1.244	2.000	.35660	-.23240	-.04760	.03260	-.01670	.03440	.04230
1.244	4.000	.35120	-.22990	-.05900	.05050	-.03330	.03490	.04610
1.244	6.000	.34660	-.22910	-.12970	.09650	-.04970	.03330	.04930
1.244	8.000	.34330	-.23000	-.16910	.10920	-.06430	.03000	.03170
1.244	10.000	.34040	-.23230	-.21390	.13350	-.09000	.03330	.03360
1.244	GRADIENT	.00033	-.00010	-.01926	.01274	-.00789	-.00000	.00081

RUN NO. 1094/ 0 RM/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAD
1.465	-10.000	.34210	-.24000	.19770	-.11250	.07160	.08730	.04190
1.465	-6.000	.34340	-.23610	.14270	-.08710	.05600	.09270	.03940
1.465	-6.000	.34890	-.23620	.10150	-.05920	.04120	.09590	.03520
1.465	-4.000	.35600	-.23890	.05400	-.03930	.02700	.03760	.03260
1.465	-2.000	.36290	-.24330	.02770	-.01620	.01310	.03970	.03030
1.465	.000	.36610	-.24420	-.00740	.00610	-.00040	.03990	.02980
1.465	2.000	.36800	-.24560	-.04190	.02590	-.01370	.03920	.03090
1.465	4.000	.36510	-.24480	-.07950	.05360	-.02940	.03750	.03330
1.465	6.000	.36100	-.24390	-.11690	.07710	-.04290	.03690	.03730
1.465	8.000	.36040	-.24700	-.15720	.10090	-.05790	.03400	.04100
1.465	10.000	.36130	-.25220	-.20350	.12940	-.07460	.03990	.04420
1.465	GRADIENT	.00117	-.00075	-.01793	.01154	-.00699	.00002	.00011

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03) / (79) / (83/2) / (93/2)

(M83013) (21 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 UREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CCAFLG = 100.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1074/ 0 RVL = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.12370	-.08400	.18440	-.09790	.05930	.07400	.01840
2.990	-8.000	.11780	-.07730	.12610	-.07490	.04490	.07390	.01820
2.990	-6.000	.11510	-.07330	.09130	-.03420	.03260	.07370	.01750
2.990	-4.000	.11340	-.07090	.05820	-.03410	.02090	.07390	.01660
2.990	-2.000	.11480	-.07030	.02690	-.01490	.00990	.07440	.01590
2.990	.000	.11760	-.07090	.00060	.00130	.00040	.07490	.01590
2.990	2.000	.11860	-.07180	-.02860	.01840	-.00920	.07470	.01640
2.990	4.000	.11830	-.07300	-.05910	.03730	-.01990	.07460	.01710
2.990	6.000	.11850	-.07440	-.09130	.05670	-.03130	.07430	.01770
2.990	8.000	.12130	-.07780	-.12820	.07760	-.04370	.07460	.01820
2.990	10.000	.12330	-.08270	-.16470	.10140	-.05730	.07530	.01860
2.990	GRADIENT	.00068	-.00028	-.01450	.00980	-.00393	.00009	.00004

RUN NO. 1075/ 0 RVL = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.10350	-.06790	.13340	-.09090	.05400	.07240	.01420
3.480	-8.000	.09880	-.06230	.11700	-.06920	.04110	.07170	.01420
3.480	-6.000	.09130	-.05720	.08450	-.03990	.02980	.07130	.01420
3.480	-4.000	.09020	-.05460	.05450	-.03190	.01920	.07140	.01350
3.480	-2.000	.09040	-.05310	.02590	-.01430	.00920	.07130	.01270
3.480	.000	.09280	-.05320	-.00010	.00120	.00050	.07160	.01200
3.480	2.000	.09490	-.05480	-.02660	.01730	-.00830	.07190	.01230
3.480	4.000	.09290	-.05510	-.03570	.03540	-.01850	.07220	.01320
3.480	6.000	.09380	-.05720	-.08550	.05330	-.02910	.07270	.01390
3.480	8.000	.09970	-.06200	-.11710	.07210	-.04020	.07300	.01420
3.480	10.000	.10210	-.06620	-.13300	.09390	-.05280	.07340	.01390
3.480	GRADIENT	.00049	-.00014	-.01364	.00831	-.00464	.00011	-.00006

HSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R03014) (21 SEP 73)

REFERENCE DATA

SREF = 0.1990 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFTG = 100.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRDINC = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1124/ 0 RNVL = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
.899	-10.000	-21550	.13970	.27530	-.17470	.07740	.01710	.03990
.999	-8.000	-21180	.14240	.22330	-.14330	.06410	.02100	.03770
.899	-6.000	-20650	.14270	.16710	-.10930	.04910	.02410	.03550
.899	-4.000	-20390	.14560	.10930	-.07050	.03290	.02700	.03300
.899	-2.000	-20430	.15020	.04950	-.03080	.01370	.03070	.03270
.899	.000	-20270	.15040	-.00920	-.00100	.03200	.03190	.03190
.899	2.000	-20270	.14900	.06770	.04620	-.01730	.03920	.03290
.899	4.000	-20690	.14710	-.12590	.09430	-.03360	.02720	.03400
.899	6.000	-21230	.14750	-.19020	.11900	-.04410	.02350	.03350
.899	8.000	-21960	.14850	-.23030	.14890	-.06040	.02400	.03770
.899	10.000	-22990	.15010	-.27820	.17620	-.07170	.02010	.03970
GRADIENT		-.00022	.00004	-.02939	.01936	-.00430	-.00000	-.00009

RUN NO. 1125/ 0 RNVL = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
1.049	-10.000	-21080	.15010	.29370	-.19890	.09940	.03220	.03610
1.049	-8.000	-20690	.15160	.23900	-.15530	.07290	.03630	.03430
1.049	-6.000	-20290	.15310	.17960	-.11960	.05510	.06090	.03340
1.049	-4.000	-19810	.15410	.11670	-.07770	.03590	.06540	.03220
1.049	-2.000	-19490	.15500	.05170	-.03360	.01650	.06790	.03090
1.049	.000	-19200	.15400	-.01250	.00990	-.00220	.06940	.02990
1.049	2.000	-19220	.15130	.07690	.03330	-.02140	.06560	.02970
1.049	4.000	-19740	.15120	-.13950	.09510	-.04060	.06310	.03090
1.049	6.000	-20290	.15200	-.19770	.13240	-.05980	.06090	.03240
1.049	8.000	-20750	.15070	-.25320	.16740	-.07510	.05700	.03410
1.049	10.000	-21340	.14990	-.31130	.20250	-.09320	.05350	.03730
GRADIENT		.00021	-.00049	-.03204	.02152	-.00955	-.00034	-.00019

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03) / (19) / (53/2) / (53/2)

(R03014) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1126/ 1 RVL = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	-22990	.16580	.28930	-.18150	.09390	.06910	.04920
1.244	-9.000	-24200	.18120	.22730	-.14320	.07450	.07180	.04990
1.244	-8.000	-24020	.19550	.16700	-.10770	.05530	.07480	.04250
1.244	-4.000	-23500	.19620	.10650	-.06930	.03600	.07770	.04010
1.244	-2.000	-23330	.18700	.04610	-.02840	.01640	.07880	.03900
1.244	.000	-23020	.18490	-.01200	.00960	-.00230	.07900	.03950
1.244	2.000	-23050	.18390	-.07060	.04960	-.02150	.07840	.04050
1.244	4.000	-23700	.18550	-.13110	.08970	-.04130	.07690	.04240
1.244	6.000	-24060	.18340	-.19110	.12590	-.06080	.07470	.04520
1.244	8.000	-23460	.17290	-.23160	.16340	-.07990	.07210	.04750
1.244	10.000	-22020	.15390	-.31560	.20060	-.09890	.06980	.05090
1.244	GRADIENT	-.00006	-.00023	-.02959	.01955	-.00962	-.00010	.00031

RUN NO. 1093/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	-19570	.14350	.28480	-.18120	.09270	.07760	.04900
1.466	-9.000	-20950	.15990	.22200	-.14340	.07340	.09140	.03740
1.466	-8.000	-21800	.17170	.16200	-.10530	.05370	.08520	.03500
1.466	-4.000	-21570	.17410	.10400	-.06750	.03450	.09540	.03280
1.466	-2.000	-21330	.17440	.04780	-.03060	.01610	.09040	.03050
1.466	.000	-21000	.17290	-.00810	.00640	-.00160	.09100	.03070
1.466	2.000	-21380	.17420	-.06560	.04450	-.01970	.08970	.03390
1.466	4.000	-22140	.17660	-.12420	.09290	-.03840	.08700	.03690
1.466	6.000	-21530	.16790	-.18300	.12140	-.05770	.08510	.03820
1.466	8.000	-19860	.14930	-.24330	.15910	-.07700	.08300	.03990
1.466	10.000	-18560	.13070	-.30670	.19550	-.09460	.07780	.04340
1.466	GRADIENT	-.00060	.00024	-.02849	.01879	-.00908	-.00017	.00059

(R03014) (21 SEP 73)

MSFC 370 (IAB1F) (03)/(19)/(S3/2)/(S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFLG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1077/ 0 RV/L = 4.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.05860	.05070	.22170	-.13560	.06650	.09480	.01620
2.990	-8.000	-.07290	.06230	.17470	-.10730	.05250	.09450	.01540
2.990	-6.000	-.08320	.07150	.12820	-.07890	.03960	.03510	.01500
2.990	-4.000	-.08530	.07590	.09430	-.05120	.02330	.09580	.01500
2.990	-2.000	-.08430	.07720	.04350	-.02350	.01200	.09620	.01420
2.990	.000	-.08660	.07860	-.00150	.00220	-.00070	.09660	.01400
2.990	2.000	-.08670	.07810	-.04260	.02760	-.01330	.09670	.01450
2.990	4.000	-.08780	.07690	-.08640	.05310	-.02620	.09620	.01500
2.990	6.000	-.08690	.07390	-.13150	.09330	-.03390	.09320	.01550
2.990	8.000	-.07900	.06640	-.17740	.11160	-.03360	.09450	.01520
2.990	10.000	-.06850	.03630	-.22370	.14030	-.06760	.09440	.01690
GRADIENT		-.00037	.00015	-.02122	.01316	-.00640	.00006	.00002

RUN NO. 1076/ 0 RV/L = 6.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.06440	.03350	.21780	-.13400	.06260	.09870	.01250
3.480	-8.000	-.07260	.09060	.17240	-.10640	.04950	.09750	.01170
3.480	-6.000	-.07680	.06590	.12740	-.07850	.03670	.09750	.01130
3.480	-4.000	-.07950	.06890	.09330	-.05070	.02400	.09730	.01130
3.480	-2.000	-.08040	.07100	.04360	-.02360	.01120	.09690	.01070
3.480	.000	-.07840	.07000	.00030	.00110	.00000	.09650	.01060
3.480	2.000	-.07770	.06920	-.04020	.02590	-.01140	.09690	.01110
3.480	4.000	-.08110	.07010	-.08370	.05330	-.02410	.09750	.01140
3.480	6.000	-.08290	.06960	-.12860	.08190	-.03700	.09750	.01190
3.480	8.000	-.07910	.06530	-.17390	.11020	-.05010	.09740	.01240
3.480	10.000	-.06920	.03570	-.22040	.13850	-.06360	.09820	.01310
GRADIENT		-.00013	.00003	-.02074	.01297	-.00594	.00003	.00003

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TABULATED SOURCE DATA - NSFC 570

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MSFC 570 (1A31F) (03) / (79) / (S3/2) / (S3/2)

(R03015) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1129/ 0 RVL = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-1.16093	.10500	.26230	-.16730	.07330	.02070	.03940
.900	-8.000	-1.15500	.10560	.21380	-.13590	.06300	.02070	.03660
.900	-6.000	-1.15000	.10610	.16130	-.10370	.04890	.02300	.03300
.900	-4.000	-1.15130	.11110	.10300	-.06830	.03250	.02660	.03390
.900	-2.000	-1.15150	.11490	.04600	-.02390	.01330	.02050	.03240
.900	.000	-1.14950	.11420	-.01240	.01000	-.00150	.03160	.03190
.900	2.000	-1.14880	.11210	-.06920	.04780	-.01770	.02940	.03340
.900	4.000	-1.15390	.11230	-.12400	.08400	-.03320	.02560	.03430
.900	6.000	-1.15850	.11250	-.17460	.11630	-.04690	.02420	.03590
.900	8.000	-1.16090	.11050	-.22140	.14490	-.05990	.02170	.03970
.900	10.000	-1.16390	.10900	-.26720	.17080	-.07030	.01940	.04130
GRADIENT		-.00013	-.00002	-.02856	.01906	-.00925	-.00005	.00011

RUN NO. 1128/ 0 RVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-1.15170	.11040	.28450	-.18310	.08920	.03110	.03390
1.048	-8.000	-1.14870	.11200	.22730	-.14930	.07140	.03700	.03270
1.048	-6.000	-1.14210	.11060	.17030	-.11370	.05400	.05910	.03180
1.048	-4.000	-1.13900	.11220	.11050	-.07410	.03340	.06220	.03030
1.048	-2.000	-1.13560	.11330	.04900	-.03140	.01640	.06330	.02930
1.048	.000	-1.13150	.11110	-.01430	.01100	-.00210	.06390	.02900
1.048	2.000	-1.12940	.10770	-.07620	.03300	-.02100	.06340	.02790
1.048	4.000	-1.12930	.10470	-.13340	.09260	-.03950	.06290	.02900
1.048	6.000	-1.13450	.10300	-.19190	.12930	-.05700	.05960	.03060
1.048	8.000	-1.14060	.10390	-.24770	.16410	-.07430	.03650	.03290
1.048	10.000	-1.14140	.10220	-.30340	.19650	-.09110	.03140	.03530
GRADIENT		.00126	-.00103	-.03090	.02099	-.00935	.00007	-.00020

(R93015) (21 SEP 73)

MSFC 570 (1A31F) (03) / (19) / (S3/2) / (S3/2)

REFERENCE DATA

MACH = 0.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COEFFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SID = .000 COATING = .300
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1127/ 0 RNL = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CDL	CAF	CAB
1.245	-10.000	-.16140	.11990	.27390	-.17220	.08250	.06790	.04740
1.245	-8.000	-.17220	.13300	.21600	-.13790	.07390	.07240	.04390
1.245	-6.000	-.17120	.13630	.19730	-.10150	.03490	.07350	.04200
1.245	-4.000	-.16780	.13780	.09990	-.06320	.03550	.07820	.04010
1.245	-2.000	-.16530	.13840	.04210	-.02590	.01630	.07930	.03830
1.245	.000	-.16170	.13320	-.01400	.01110	-.00280	.07910	.03950
1.245	2.000	-.16030	.13300	-.07090	.04900	-.02240	.07890	.04090
1.245	4.000	-.16720	.13350	-.12980	.09770	-.04210	.07740	.04250
1.245	6.000	-.17180	.13500	-.18370	.12420	-.06390	.07490	.04460
1.245	8.000	-.18460	.12510	-.24200	.15940	-.07890	.07200	.04710
1.245	10.000	-.14880	.10600	-.30190	.19290	-.09760	.06840	.05140
GRADIENT		.00032	-.00032	-.02840	.01872	-.00969	-.00011	.00036

RUN NO. 1092/ 0 RNL = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CDL	CAF	CAB
1.467	-10.000	-.14360	.10900	.28280	-.15770	.08780	.07800	.03960
1.467	-8.000	-.16130	.12780	.20340	-.13120	.06870	.09160	.03640
1.467	-6.000	-.16640	.13600	.14510	-.09490	.04950	.09470	.03450
1.467	-4.000	-.18460	.13820	.09080	-.05960	.03090	.09740	.03220
1.467	-2.000	-.16370	.13890	.03670	-.02290	.01330	.09990	.03090
1.467	.000	-.16040	.13670	-.01750	.01310	-.00420	.09350	.03120
1.467	2.000	-.16380	.13780	-.07310	.04990	-.02230	.09820	.03420
1.467	4.000	-.16840	.13950	-.12900	.09630	-.04070	.09830	.03690
1.467	6.000	-.15990	.12860	-.18570	.12340	-.06000	.09470	.03930
1.467	8.000	-.14360	.11050	-.24440	.16010	-.07890	.09110	.04370
1.467	10.000	-.12780	.09040	-.30430	.19450	-.09570	.07790	.04690
GRADIENT		-.00038	-.00003	-.02747	.01812	-.00893	-.00017	.00064

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03) / (19) / (53/2) / (53/2)

(R03013) (21 SEP 73)

REFERENCE DATA

BREF = 9.1980 SQ. IN XMRP = 2.3490 IN.
 UREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONF16 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1078/ 0 RNL = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.01780	.02270	.21140	-.12980	.06920	.09490	.01370
2.990	-9.000	-.03040	.03350	.16640	-.10200	.03140	.09460	.01300
2.990	-8.000	-.04370	.04470	.12180	-.07490	.03770	.09550	.01470
2.990	-4.000	-.04940	.03110	.07930	-.04840	.02460	.09610	.01410
2.990	-2.000	-.04620	.03110	.03770	-.02220	.01160	.09610	.01320
2.990	.000	-.04390	.05010	-.09270	.00270	-.00080	.09630	.01350
2.990	2.000	-.04710	.03150	-.04310	.02910	-.01320	.09680	.01410
2.990	4.000	-.04650	.04960	-.09350	.03390	-.02590	.09620	.01460
2.990	6.000	-.04490	.04580	-.12610	.08030	-.03910	.09510	.01320
2.990	8.000	-.04270	.04080	-.17170	.10920	-.05300	.09470	.01590
2.990	10.000	-.03210	.03040	-.21630	.13630	-.06690	.09500	.01650
GRADIENT		.00024	-.00013	-.02032	.01273	-.00629	.00005	.00009

RUN NO. 1079/ 0 RNL = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.02050	.02230	.20810	-.12750	.06070	.09870	.01190
3.480	-8.000	-.03220	.03230	.16430	-.10110	.04920	.09750	.01120
3.480	-6.000	-.04260	.04110	.12030	-.07410	.03520	.09810	.01120
3.480	-4.000	-.04220	.04310	.07850	-.04770	.02270	.09810	.01110
3.480	-2.000	-.04080	.04280	.03700	-.02140	.01040	.09740	.01040
3.480	.000	-.03990	.04210	-.00120	.00190	-.00020	.09730	.01020
3.480	2.000	-.04060	.04360	-.03980	.02580	-.01120	.09830	.01050
3.480	4.000	-.04350	.04430	-.06100	.05220	-.02340	.09890	.01090
3.480	6.000	-.04360	.04220	-.12360	.07910	-.03620	.09810	.01140
3.480	8.000	-.04230	.03880	-.16870	.10700	-.04930	.09800	.01200
3.480	10.000	-.03530	.03180	-.21610	.13590	-.06290	.10010	.01280
GRADIENT		-.00013	.00016	-.01979	.01235	-.00569	.00012	-.00002

MSFC 370 (1431F) (03)/(79)/(03/2)/(03/2)

(R03016) (21 SEP 73)

REFERENCE DATA

BREF = 6.190 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFTC = 103.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CGBINC = 1.400
 SPACER = .000 SPADTA = .000
 SPACAP = .000

RUN NO. 1130/ 0 RV/L = 6.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.897	-10.000	-.09650	.05330	.24730	-.15790	.07300	.01870	.03940
.897	-8.000	-.08920	.06250	.20390	-.13290	.06190	.02200	.03640
.897	-6.000	-.08240	.06150	.15410	-.10140	.04930	.02490	.03430
.897	-4.000	-.08180	.06490	.09930	-.06300	.03220	.02700	.03340
.897	-2.000	-.08360	.06950	.04390	-.02780	.01530	.03020	.03170
.897	.000	-.08320	.07210	-.01010	.00830	-.00090	.03120	.03090
.897	2.000	-.08520	.07030	-.06420	.04470	-.01690	.02930	.03190
.897	4.000	-.08590	.06750	-.11920	.09200	-.03320	.02750	.03320
.897	6.000	-.08660	.06490	-.16900	.11440	-.04740	.02370	.03330
.897	8.000	-.08730	.06190	-.21270	.14060	-.05920	.02330	.03490
.897	10.000	-.09190	.06090	-.23500	.16440	-.07050	.01940	.04240
GRADIENT		-.00049	.00030	-.02725	.01832	-.00815	.00001	-.00001

RUN NO. 1131/ 1 RV/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.08250	.04900	.26780	-.17300	.09630	.03340	.03220
1.050	-8.000	-.08990	.05000	.21430	-.14080	.07030	.06090	.03050
1.050	-6.000	-.09400	.04890	.19970	-.10650	.05340	.06360	.02910
1.050	-4.000	-.09920	.04900	.10340	-.06930	.03330	.06550	.02920
1.050	-2.000	-.09710	.05040	.04520	-.02950	.01650	.06940	.02900
1.050	.000	-.04510	.04950	-.01320	.01040	-.00230	.06980	.02720
1.050	2.000	-.04370	.04690	-.07260	.05100	-.02200	.05980	.02720
1.050	4.000	-.04450	.04470	-.12900	.08990	-.04050	.06590	.02900
1.050	6.000	-.04780	.04410	-.19200	.12330	-.05740	.06250	.02970
1.050	8.000	-.05340	.04500	-.23530	.15660	-.07420	.05920	.03200
1.050	10.000	-.05990	.04570	-.28970	.18920	-.09050	.05340	.03330
GRADIENT		.00064	-.00061	-.02913	.01984	-.00953	-.00009	-.00005

MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R03016) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONF16 = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1132/ 0 RW/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.243	-10.000	-.06100	.06430	.25920	-.16310	.09070	.07090	.04690
1.243	-8.000	-.06770	.07300	.20320	-.12970	.07270	.07510	.04420
1.243	-6.000	-.06860	.07710	.14770	-.09300	.05450	.07640	.04250
1.243	-4.000	-.08570	.07890	.09310	-.09910	.03590	.09130	.04060
1.243	-2.000	-.06300	.07910	.03990	-.02310	.01650	.09300	.03980
1.243	.000	-.07950	.07640	-.01360	.01160	-.00260	.09280	.03970
1.243	2.000	-.08080	.07610	-.06620	.04630	-.02210	.09170	.04140
1.243	4.000	-.08640	.07600	-.09640	.08230	-.04160	.09030	.04290
1.243	6.000	-.08850	.07620	-.17380	.11690	-.05960	.07780	.04490
1.243	8.000	-.08390	.06850	-.22700	.14930	-.07650	.07430	.04720
1.243	10.000	-.07170	.03430	-.29330	.19190	-.09510	.07120	.05040
	GRADIENT	.00004	-.00024	-.02660	.01761	-.00969	-.00016	.00036

RUN NO. 1091/ 0 RW/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.468	-10.000	-.07040	.05990	.25090	-.16020	.09660	.07960	.04040
1.468	-8.000	-.06880	.07750	.19690	-.12670	.06940	.08290	.03740
1.468	-6.000	-.09630	.08690	.14280	-.09310	.05010	.09620	.03310
1.468	-4.000	-.09770	.09110	.09020	-.05820	.03190	.09990	.03260
1.468	-2.000	-.09600	.09140	.03950	-.02390	.01450	.09990	.03070
1.468	.000	-.09260	.08930	-.01290	.00990	-.00260	.09030	.03040
1.468	2.000	-.09350	.08990	-.06650	.04550	-.02060	.08940	.03300
1.468	4.000	-.09620	.08850	-.12000	.08090	-.03860	.08720	.03660
1.468	6.000	-.08980	.08060	-.17360	.11600	-.05710	.08490	.03990
1.468	8.000	-.07430	.06430	-.22960	.15110	-.07390	.08240	.04190
1.468	10.000	-.05760	.04430	-.28620	.18360	-.09310	.07940	.04560
	GRADIENT	.00027	-.00036	-.02627	.01739	-.00479	-.00020	.00052

MSFC 570 (1A31F) (G3) / (T9) / (S3/2) / (S3/2)

(R83016) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -3.000 CCNFIG = 100.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1081/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAG
2.990	-10.000	.01080	.00120	.20170	-.12260	.06240	.09390	.01590
2.990	-8.000	-.00150	.01220	.15750	-.09610	.04900	.09390	.01520
2.990	-6.000	-.01240	.02160	.11510	-.07050	.03600	.09300	.01510
2.990	-4.000	-.01500	.02630	.07390	-.04500	.02320	.09370	.01440
2.990	-2.000	-.01150	.02620	.03370	-.01950	.01050	.09620	.01330
2.990	.000	-.01040	.02610	-.00450	.00410	-.03140	.09630	.01320
2.990	2.000	-.01240	.02710	-.04310	.02940	-.01340	.09660	.01370
2.990	4.000	-.01220	.02350	-.09290	.05390	-.02590	.09690	.01430
2.990	6.000	-.01150	.02210	-.12440	.07970	-.03900	.09370	.01510
2.990	8.000	-.00900	.01620	-.16930	.10600	-.05220	.09330	.01570
2.990	10.000	.00460	.00430	-.21350	.13230	-.06510	.09620	.01610
GRADIENT		.00023	-.00003	-.01951	.01229	-.00610	.00011	.00001

RUN NO. 1080/ 0 RN/L = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAG
3.480	-10.000	.00760	.00240	.19870	-.12110	.05950	.09950	.01190
3.480	-8.000	-.00340	.01190	.15320	-.09500	.04570	.09990	.01140
3.480	-6.000	-.01340	.02040	.11290	-.06920	.03300	.09960	.01150
3.480	-4.000	-.01500	.02320	.07300	-.04430	.02090	.09930	.01110
3.480	-2.000	-.01210	.02400	.03450	-.02000	.00970	.09770	.01020
3.480	.000	-.01100	.02310	-.00260	.00270	-.00060	.09630	.00990
3.480	2.000	-.01290	.02360	-.03970	.02610	-.01100	.09690	.01010
3.480	4.000	-.01360	.02340	-.07930	.05150	-.02300	.09930	.01090
3.480	6.000	-.01330	.02090	-.12100	.07760	-.03570	.09930	.01140
3.480	8.000	-.00960	.01620	-.16420	.10410	-.04940	.09990	.01170
3.480	10.000	.00250	.00590	-.21090	.13230	-.06190	.10000	.01260
GRADIENT		.00011	.00000	-.01896	.01199	-.00542	-.00004	-.00004

MSFC 370 (1A31F) (03) / (179) / (53/2) / (53/2)

(R03017) (21 SEP 73)

REFERENCE DATA

BRP = 0.1980 SQ. IN XMRP = 2.1490 IN.
 LREP = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRGINC = -.900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1133/ 0 RML = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.22120	.14540	.26320	-.17150	.07790	.01640	.04070
.899	-8.000	-.21830	.14820	.21210	-.13930	.06350	.02030	.03730
.899	-6.000	-.21540	.15050	.15810	-.10440	.04950	.02400	.03510
.899	-4.000	-.21730	.15590	.10320	-.06790	.03250	.02740	.03200
.899	-2.000	-.21990	.16080	.04770	-.03040	.01590	.02900	.03050
.899	.000	-.21940	.16150	-.00860	.00740	-.00070	.02980	.03090
.899	2.000	-.21840	.15950	-.06510	.04540	-.01730	.02950	.03060
.899	4.000	-.21910	.15780	-.11970	.08160	-.03330	.02760	.03110
.899	6.000	-.21950	.15500	-.17010	.11420	-.04730	.02300	.03410
.899	8.000	-.22170	.15230	-.21940	.14510	-.06020	.02280	.03740
.899	10.000	-.23020	.15430	-.27090	.17690	-.07360	.02370	.03870
GRADIENT		-.00010	.00013	-.02793	.01874	-.00824	-.00001	-.00009

RUN NO. 1134/ 0 RML = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.22120	.15930	.28350	-.19570	.08990	.03150	.03730
1.048	-8.000	-.22050	.16320	.22780	-.15170	.07280	.03680	.03530
1.048	-6.000	-.21740	.16450	.17240	-.11650	.05560	.03940	.03320
1.048	-4.000	-.21390	.16580	.11360	-.07680	.03680	.06150	.03150
1.048	-2.000	-.21290	.16790	.05050	-.03320	.01750	.06450	.03010
1.048	.000	-.21180	.16850	-.01030	.00860	-.00150	.06720	.02760
1.048	2.000	-.20930	.16530	-.07100	.05000	-.02030	.06490	.02690
1.048	4.000	-.21190	.16390	-.13160	.09130	-.03970	.06240	.02900
1.048	6.000	-.21690	.16430	-.18850	.12900	-.05770	.06060	.03080
1.048	8.000	-.21860	.16170	-.24390	.16360	-.07460	.05690	.03300
1.048	10.000	-.22030	.15960	-.30010	.19760	-.09240	.05440	.03850
GRADIENT		.00038	-.00032	-.03059	.02097	-.00951	.00011	-.00041

(R93017) (21 SEP 73)

MSFC 37F (1A31F) (03) / (T9) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN
LREF = 9.3130 IN.
BREF = 9.3130 IN.
SCALE = .0040

ALPHA = -5.000
DELTAZ = .140
X-SEP = .000
SPACER = .000
SPACAP = .000

PARAMETRIC DATA

RUN NO. 1133/ 0 RIVL = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.246	-10.000	-25900	.19060	.27380	-.17610	.09030	.06420	.04970
1.246	-8.000	-27220	.20340	.21640	-.14150	.07130	.06440	.04660
1.246	-6.000	-27100	.20390	.19970	-.10450	.06260	.07210	.04300
1.246	-4.000	-26600	.20350	.10190	-.06660	.03430	.07470	.03950
1.246	-2.000	-26140	.20780	.04610	-.02900	.01540	.07590	.03730
1.246	.000	-25810	.20550	-.00990	.00940	-.00120	.07670	.03740
1.246	2.000	-25920	.20430	-.06710	.04730	-.01390	.07600	.03930
1.246	4.000	-26480	.20660	-.12430	.08620	-.03840	.07500	.04210
1.246	6.000	-26790	.20590	-.17990	.12220	-.05630	.07320	.04350
1.246	8.000	-26190	.19740	-.23530	.15730	-.07490	.07130	.04430
1.246	10.000	-25420	.18530	-.29810	.19480	-.09310	.06820	.05150
	GRADIENT	.00030	-.00037	-.02828	.01909	-.00904	-.00001	.00036

RUN NO. 1090/ 0 RIVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.466	-10.000	-21410	.16450	.26820	-.17370	.09130	.07990	.03980
1.466	-8.000	-22350	.17880	.21130	-.13900	.07270	.08300	.03770
1.466	-6.000	-23330	.18980	.15470	-.10230	.05340	.08560	.03490
1.466	-4.000	-23330	.19130	.10000	-.06610	.03460	.08930	.03300
1.466	-2.000	-23100	.19100	.04540	-.02920	.01590	.09090	.03190
1.466	.000	-22850	.18910	-.01010	.00960	-.00240	.09150	.03220
1.466	2.000	-23070	.19030	-.06490	.04560	-.02060	.09050	.03400
1.466	4.000	-23640	.19310	-.11940	.09190	-.03880	.08790	.03690
1.466	6.000	-23090	.18590	-.17310	.11960	-.05170	.08620	.03860
1.466	8.000	-21400	.16860	-.23200	.15490	-.07690	.08430	.03970
1.466	10.000	-19870	.15050	-.28980	.18950	-.09450	.08100	.04470
	GRADIENT	-.00029	.00013	-.02745	.01854	-.00916	-.00019	.00050

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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (Q3)/(T9)/(S3/2)/(S3/2)

(R03017) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1082/ 0 RVL = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.07260	.05930	.21130	-.13020	.06330	.09740	.01690
2.990	-8.000	-.08100	.06730	.16540	-.10240	.05100	.09760	.01690
2.990	-6.000	-.08410	.07170	.12140	-.07330	.03740	.09790	.01390
2.990	-4.000	-.08360	.07360	.07840	-.04790	.02390	.09790	.01390
2.990	-2.000	-.08290	.07420	.03570	-.02090	.01060	.09740	.01510
2.990	.000	-.08250	.07440	-.00540	.00430	-.00190	.09770	.01440
2.990	2.000	-.08240	.07420	-.04540	.02990	-.01390	.09920	.01480
2.990	4.000	-.08450	.07390	-.08710	.05690	-.02590	.09990	.01560
2.990	6.000	-.08390	.07140	-.13040	.08410	-.04030	.09860	.01390
2.990	8.000	-.07920	.06610	-.17510	.11170	-.05400	.09780	.01650
2.990	10.000	-.07420	.06000	-.22230	.14010	-.06850	.09990	.01820
	GRADIENT	-.00006	.00003	-.02060	.01301	-.00629	.00029	-.00003

RUN NO. 1083/ 0 RVL = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.06650	.05460	.20640	-.12790	.06130	.10180	.01290
3.480	-8.000	-.07230	.06030	.16190	-.10060	.04760	.10140	.01240
3.480	-6.000	-.07590	.06400	.11800	-.07310	.03430	.10130	.01200
3.480	-4.000	-.07800	.06670	.07500	-.04610	.02120	.10140	.01190
3.480	-2.000	-.07540	.06690	.03500	-.02060	.00960	.10010	.01170
3.480	.000	-.07500	.06620	-.00380	.00360	-.00120	.10030	.01120
3.480	2.000	-.07690	.06720	-.04280	.02830	-.01230	.10160	.01130
3.480	4.000	-.07600	.06570	-.09430	.05510	-.02450	.10240	.01200
3.480	6.000	-.07300	.06240	-.12810	.08320	-.03760	.10310	.01260
3.480	8.000	-.07140	.05950	-.17350	.11150	-.05150	.10400	.01330
3.480	10.000	-.07400	.05930	-.22210	.14090	-.06660	.10530	.01410
	GRADIENT	.00012	-.00004	-.01982	.01256	-.00556	.00019	-.00001

WSCF 570 (1331F) (G3)/(T9)/(S3/2)/(S3/2)

(R33018) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SEP = .000 CRDLINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1136/ 0 RIVL = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	-1.17040	.11150	.25590	-.16900	.07660	.01670	.04020
.898	-8.000	-1.16660	.11420	.20560	-.13670	.06230	.02210	.03700
.898	-6.000	-1.17070	.12030	.15570	-.10400	.04890	.02440	.03450
.898	-4.000	-1.17400	.12630	.10300	-.06850	.03340	.02570	.03290
.898	-2.000	-1.17160	.12860	.04540	-.02900	.01570	.02870	.03070
.898	.000	-1.17480	.13190	-.00930	.00810	-.00070	.02950	.03000
.898	2.000	-1.17640	.13130	-.06230	.04360	-.01640	.02790	.03000
.898	4.000	-1.17570	.12820	-.11740	.08100	-.03270	.02660	.03150
.898	6.000	-1.17750	.12670	-.15960	.11460	-.04710	.02390	.03440
.898	8.000	-1.18130	.12610	-.21630	.14440	-.05950	.02160	.03660
.898	10.000	-1.19350	.12780	-.26690	.17620	-.07290	.02470	.03930
GRADIENT		-.00041	.00033	-.02742	.01859	-.00821	.00005	-.00019

RUN NO. 1437/ 1 RIVL = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.13300	.10010	.26610	-.17430	.08630	.05050	.03370
1.049	-8.000	-.13140	.10070	.21470	-.14300	.07020	.03460	.03330
1.049	-6.000	-.12590	.09980	.16140	-.10980	.05350	.02910	.03170
1.049	-4.000	-.12180	.09990	.10330	-.07100	.03340	.02140	.03040
1.049	-2.000	-.11970	.10070	.04720	-.03110	.01660	.02370	.02950
1.049	.000	-.11710	.09970	-.01030	.00960	-.00150	.02490	.02890
1.049	2.000	-.11570	.09760	-.05840	.04870	-.02030	.02350	.02820
1.049	4.000	-.11750	.09680	-.12500	.08730	-.03900	.02150	.02820
1.049	6.000	-.12190	.09700	-.17450	.12260	-.05630	.02940	.03090
1.049	8.000	-.12550	.09630	-.23080	.15590	-.07290	.03500	.03290
1.049	10.000	-.12480	.09340	-.29300	.19770	-.09030	.03500	.03330
GRADIENT		.00063	-.00046	-.02981	.01982	-.00829	.00000	-.00019

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (G3) / (T9) / (S3/2) / (S3/2)

(R93C16) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CCAFFC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1138/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-21000	.13510	.26620	-.17180	.03990	.06240	.04970
1.246	-8.000	-22100	.16810	.21070	-.13840	.07120	.06640	.04640
1.246	-6.000	-21960	.17170	.15560	-.10300	.03290	.07040	.04210
1.246	-4.000	-21190	.16930	.09890	-.06490	.03440	.07300	.03690
1.246	-2.000	-20900	.16940	.04370	-.02790	.01640	.07440	.03690
1.246	.000	-20800	.16880	-.00960	.00930	-.00110	.07460	.03710
1.246	2.000	-21070	.16940	-.08560	.04640	-.01970	.07370	.03860
1.246	4.000	-21340	.16950	-.12280	.09340	-.03670	.07230	.04130
1.246	6.000	-21450	.16780	-.17790	.12140	-.03720	.07050	.04470
1.246	8.000	-21290	.16220	-.23300	.15340	-.07580	.06930	.04790
1.246	10.000	-20080	.14720	-.29120	.19060	-.09320	.06330	.05110
GRADIENT		-.00024	.00002	-.02762	.01972	-.00911	-.00011	.00033

RUN NO. 1089/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	-16930	.13430	.25090	-.16260	.03740	.07870	.03990
1.467	-8.000	-18040	.14770	.19570	-.12930	.06870	.08180	.03740
1.467	-6.000	-18740	.15690	.14160	-.09340	.04990	.08450	.03490
1.467	-4.000	-18710	.15880	.08990	-.05840	.03140	.09710	.03290
1.467	-2.000	-18710	.15970	.03660	-.02340	.01330	.09870	.03070
1.467	.000	-18600	.15860	-.01630	.01260	-.00440	.08910	.03110
1.467	2.000	-18510	.15730	-.07120	.04990	-.02290	.08850	.03340
1.467	4.000	-18470	.15560	-.12300	.08590	-.04120	.08700	.03620
1.467	6.000	-17910	.14840	-.17890	.12080	-.03990	.08480	.03890
1.467	8.000	-16700	.13410	-.23510	.15630	-.07900	.08250	.04130
1.467	10.000	-14990	.11520	-.29140	.18990	-.09650	.07940	.04530
GRADIENT		.00034	-.00044	-.02677	.01808	-.00906	-.00002	.00047

MSFC 570(1A31F)(031)/(T8)/(03/2)/(03/2)

(R03018) (21 SEP 75)

REFERENCE DATA

GREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 JRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1085/ 0 RVL = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.02820	.02910	.20860	-.12690	.06510	.09980	.01670
2.990	-8.000	-.03710	.03770	.16320	-.10040	.05120	.09900	.01590
2.990	-6.000	-.04590	.04550	.12000	-.07410	.03750	.09970	.01550
2.990	-4.000	-.04680	.04930	.07750	-.04750	.02380	.09950	.01520
2.990	-2.000	-.04700	.04960	.03720	-.02170	.01120	.09940	.01490
2.990	.000	-.04630	.04980	-.00240	.00280	-.00090	.09950	.01440
2.990	2.000	-.04660	.04980	-.04150	.02740	-.01280	.10050	.01450
2.990	4.000	-.04530	.04800	-.08150	.05330	-.02590	.10090	.01520
2.990	6.000	-.04400	.04490	-.12440	.09030	-.03920	.10030	.01570
2.990	8.000	-.04260	.04100	-.16990	.10740	-.05330	.10010	.01650
2.990	10.000	-.03920	.03550	-.21370	.13420	-.06720	.10050	.01750
GRADIENT	.00037	-.00012	-.01993	.01253	-.00613	.00024	-.00002	

RUN NO. 1084/ 0 RVL = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.02830	.02960	.20220	-.12430	.06170	.10400	.01240
3.490	-8.000	-.03610	.03630	.15840	-.09770	.04790	.10330	.01200
3.490	-6.000	-.03990	.04070	.11690	-.07290	.03500	.10260	.01170
3.490	-4.000	-.04200	.04330	.07560	-.04590	.02230	.10170	.01170
3.480	-2.000	-.04260	.04420	.03520	-.02110	.01030	.10120	.01110
3.490	.000	-.04130	.04390	-.00140	.00210	-.00060	.10110	.01080
3.490	2.000	-.04020	.04320	-.03900	.02580	-.01150	.10190	.01090
3.480	4.000	-.03990	.04170	-.07840	.05120	-.02350	.10300	.01150
3.480	6.000	-.03950	.04000	-.12090	.07800	-.03660	.10390	.01220
3.480	8.000	-.03760	.03760	-.16540	.10360	-.05060	.10300	.01290
3.480	10.000	-.03260	.03220	-.21070	.13350	-.06490	.10570	.01340
GRADIENT	.00043	-.00021	-.01916	.01205	-.00567	.00015	-.00003	

MSFC 570 (1A31F) (03) / (19) / (S3/2) / (S3/2)

(R03019) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1141/ 0 RVL = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	-.10340	.06930	.24290	-.15860	.07480	.01890	.03980
.898	-8.000	-.09620	.06840	.19870	-.13220	.06250	.02300	.03590
.898	-6.000	-.09600	.07140	.15070	-.10110	.04870	.02470	.03390
.898	-4.000	-.09570	.07470	.09790	-.06540	.03260	.02660	.03230
.898	-2.000	-.09540	.07760	.04360	-.02810	.01520	.02970	.03060
.898	.000	-.09680	.07950	-.00820	.00710	-.00110	.03050	.02990
.898	2.000	-.09910	.07940	-.06090	.04280	-.01740	.02880	.03030
.898	4.000	-.10050	.07770	-.11480	.07990	-.03410	.02670	.03160
.898	6.000	-.09930	.07440	-.16370	.11230	-.04860	.02500	.03390
.898	8.000	-.10020	.07210	-.20720	.13900	-.06060	.02310	.03690
.898	10.000	-.10790	.07320	-.24950	.16350	-.07190	.02030	.03930
GRADIENT		-.00066	.00039	-.02649	.01907	-.00930	-.00004	-.00009

RUN NO. 1140/ 0 RVL = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.07860	.06240	.25800	-.17000	.08590	.03300	.03460
1.048	-8.000	-.07210	.06070	.20730	-.13870	.07000	.03750	.03210
1.048	-6.000	-.06410	.05770	.15520	-.10300	.05360	.06160	.03040
1.048	-4.000	-.06010	.05760	.10050	-.06800	.03540	.06570	.02950
1.048	-2.000	-.05560	.05620	.04550	-.03000	.01670	.06720	.02710
1.048	.000	-.05130	.05350	-.00950	.00900	-.00160	.06710	.02650
1.048	2.000	-.05120	.05200	-.06610	.04730	-.02080	.06520	.02600
1.048	4.000	-.05490	.05290	-.12010	.08410	-.03920	.06340	.02760
1.048	6.000	-.06120	.05530	-.17190	.11850	-.05620	.06090	.02910
1.048	8.000	-.06780	.05730	-.22400	.15200	-.07270	.05740	.03010
1.048	10.000	-.07190	.05930	-.27480	.18310	-.08990	.05650	.03420
GRADIENT		.00074	-.00068	-.02764	.01907	-.00932	-.00033	-.00015

MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2)

(R03019) (21 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1960 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 100.000
DELTA Z = .140 RUDDER = .000
X-SFB = .000 CRDINC = 1.500
SPACER = .000 CRADIA = .000
SPAGAP = .000

RUN NO. 1139/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.245	-10.000	-11600	.09990	.25110	-1.16100	.09850	.06630	.04980
1.245	-8.000	-12400	.10060	.19820	-1.12990	.07040	.07100	.04540
1.245	-6.000	-12200	.10260	.14570	-.09540	.05250	.07410	.04190
1.245	-4.000	-11600	.10130	.09190	-.05930	.03420	.07670	.03900
1.245	-2.000	-11300	.10040	.03940	-.02390	.01590	.07400	.03740
1.245	.000	-11160	.09980	-.01140	.01000	-.00210	.07790	.03750
1.245	2.000	-11410	.10050	-.06390	.04530	-.02090	.07690	.03900
1.245	4.000	-11750	.10120	-.11670	.08100	-.03950	.07530	.04170
1.245	6.000	-12140	.10170	-.16960	.11500	-.05750	.07370	.04440
1.245	8.000	-12090	.09740	-.22120	.14760	-.07550	.07090	.04710
1.245	10.000	-10690	.09140	-.27510	.17930	-.09390	.06700	.05110
GRADIENT		-.00011	-.00000	-.02601	.01749	-.00920	-.00017	.00035

RUN NO. 1088/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.466	-10.000	-.09500	.09230	.24400	-.11520	.09740	.07940	.04020
1.466	-8.000	-.10720	.09620	.19110	-.12460	.08910	.08250	.03750
1.466	-6.000	-.11460	.10320	.13990	-.09190	.05070	.08310	.03520
1.466	-4.000	-.11490	.10740	.08970	-.05970	.03270	.08720	.03300
1.466	-2.000	-.11410	.10770	.03910	-.02490	.01490	.08460	.03090
1.466	.000	-.11310	.10700	-.01230	.01000	-.00290	.08490	.03040
1.466	2.000	-.11370	.10700	-.06450	.04530	-.02090	.08190	.03240
1.466	4.000	-.11420	.10630	-.11620	.07990	-.03910	.08570	.03580
1.466	6.000	-.10960	.09950	-.16900	.11370	-.05760	.08540	.03950
1.466	8.000	-.09640	.09590	-.22130	.14710	-.07630	.08310	.04100
1.466	10.000	-.07990	.09830	-.27650	.17960	-.09440	.08040	.04420
GRADIENT		.00009	-.00015	-.02577	.01735	-.00937	-.00009	.00039

NSFC 570 (TA31F) (03) / (T9) / (S3/2) / (S3/2)

(R03019) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFLG = 100.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1086/ 0 RVL = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.00070	.00910	.19690	-.11970	.06300	.09920	.01680
2.990	-8.000	-.00900	.01830	.15370	-.09400	.04900	.09940	.01610
2.990	-6.000	-.01630	.02320	.11270	-.06910	.03570	.09960	.01570
2.990	-4.000	-.01670	.02740	.07280	-.04430	.02280	.09940	.01530
2.990	-2.000	-.01640	.02870	.03340	-.01940	.01030	.09930	.01440
2.990	.000	-.01540	.02870	-.00420	.00390	-.00120	.09970	.01370
2.990	2.000	-.01600	.02890	-.04210	.02780	-.01300	.10030	.01410
2.990	4.000	-.01560	.02740	-.03140	.03290	-.02570	.10110	.01500
2.990	6.000	-.01280	.02350	-.12160	.07820	-.03870	.10080	.01590
2.990	8.000	-.00890	.01850	-.16430	.10420	-.03250	.10060	.01660
2.990	10.000	-.00130	.01090	-.21030	.13140	-.06700	.10130	.01760
GRADIENT		.00013	.00001	-.01919	.01209	-.00601	.00023	-.00005

RUN NO. 1087/ 0 RVL = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.00180	.00990	.19260	-.11790	.06000	.10350	.01250
3.480	-8.000	-.00530	.01650	.15050	-.09230	.04650	.10270	.01210
3.480	-6.000	-.00950	.02090	.11000	-.06750	.03370	.10210	.01160
3.480	-4.000	-.01160	.02340	.07070	-.04280	.02140	.10120	.01140
3.480	-2.000	-.01150	.02430	.03340	-.01930	.00990	.10050	.01080
3.480	.000	-.01020	.02390	-.00260	.00390	-.00090	.10020	.01040
3.480	2.000	-.01110	.02420	-.03910	.02590	-.01200	.10080	.01060
3.480	4.000	-.01180	.02370	-.07770	.05040	-.02400	.10220	.01120
3.480	6.000	-.00710	.01930	-.11840	.07610	-.03670	.10350	.01210
3.480	8.000	-.00130	.01410	-.16100	.10240	-.05020	.10470	.01280
3.480	10.000	.00000	.01130	-.20530	.12950	-.06450	.10570	.01320
GRADIENT		.00000	.00003	-.01846	.01158	-.00563	.00011	-.00003

SREF = 0.1900 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COAFTG = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBITIC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1165/ 0 RIVL = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.596	-10.000	-.23610	.16470	-.01400	.01080	-.00300	.02330	.03090
.596	-8.000	-.16720	.11690	-.01290	.01020	-.00230	.02400	.03140
.596	-6.000	-.10620	.07440	-.01160	.01160	-.00190	.02460	.03230
.596	-5.000	-.08310	.06120	-.01290	.01050	-.00130	.02740	.03100
.596	-4.000	-.03640	.04440	-.01230	.01010	-.00110	.02930	.03020
.596	-2.000	.00370	.00190	-.01280	.01060	-.00110	.03020	.02960
.596	.000	.07260	-.04420	-.01260	.01040	-.00070	.02810	.03000
.596	2.000	.14200	-.09320	-.00930	.00930	.00120	.02570	.02920
.596	4.000	.20930	-.13900	-.01130	.00930	.00120	.02000	.02340
.596	5.000	.24500	-.16520	-.01260	.01040	.00160	.01420	.03220
.596	6.000	.27960	-.18990	-.01300	.01070	.00150	.00970	.03360
.596	8.000	.34310	-.23300	-.01190	.00980	.00000	.00590	.03120
.596	10.000	.42940	-.29370	-.01800	.01500	.00120	.00140	.03190
GRADIENT	.03307	-.02294	.00013	-.00010	.00031	-.00125	.00002	.00002

RUN NO. 1164/ 0 RIVL = 5.16 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.20480	.14780	-.01840	.01330	-.00430	.03700	.03530
.900	-8.000	-.12240	.09820	-.01690	.01460	-.00370	.03660	.03430
.900	-6.000	-.05690	.04300	-.01960	.01690	-.00370	.04040	.03200
.900	-5.000	-.03270	.02750	-.01930	.01650	-.00360	.04340	.03120
.900	-4.000	-.00200	.00590	-.01930	.01550	-.00340	.04370	.03230
.900	-2.000	.07320	-.04850	-.01670	.01420	-.00270	.04010	.03730
.900	.000	.14620	-.09900	-.02160	.01780	-.00340	.03930	.03930
.900	2.000	.20390	-.13950	-.02880	.02290	-.00370	.03940	.03070
.900	4.000	.28030	-.19310	-.01570	.01380	-.00120	.03600	.03050
.900	5.000	.30320	-.20840	-.01580	.01370	-.00170	.03100	.03310
.900	6.000	.32960	-.22670	-.01670	.01410	-.00210	.02850	.03490
.900	8.000	.39720	-.27490	-.02100	.01560	-.00270	.03010	.03470
.900	10.000	.46490	-.31380	-.01700	.01410	-.00030	.03200	.03710
GRADIENT	.03411	-.02397	.00004	-.00004	.00004	-.00014	-.00103	-.00012

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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (03) / (T9) (U5) / (S3/2) / (S3/2)

(R93020) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1163/ 0 RVL = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-25440	.20280	-.01100	.01000	-.00250	.07470	.03170
1.048	-8.000	-16920	.13910	-.01400	.01220	-.00300	.07470	.03070
1.048	-6.000	-09660	.07870	-.01350	.01380	-.00290	.07640	.02970
1.048	-5.000	-04320	.04700	-.01360	.01380	-.00300	.07530	.02860
1.048	-4.000	-00240	.01470	-.01390	.01380	-.00290	.07530	.02790
1.048	-2.000	.09330	-.05070	-.01350	.01330	-.00210	.07490	.02710
1.048	.000	.16890	-.11240	-.01390	.01240	-.00220	.07100	.02700
1.048	2.000	.23370	-.15930	-.01660	.01430	-.00290	.06720	.02340
1.048	4.000	.27790	-.18860	-.01570	.01290	-.00290	.06040	.02150
1.048	5.000	.29370	-.19950	-.01480	.01240	-.00190	.05910	.02130
1.048	6.000	.31710	-.21090	-.01440	.01190	-.00120	.05840	.02180
1.048	8.000	.37340	-.24390	-.01320	.01160	-.00060	.05980	.02320
1.048	10.000	.43170	-.29370	-.01220	.00870	-.00060	.05430	.02340
GRADIENT	.03469	-.02309	.00002	-.00002	-.00010	.00004	-.00174	-.00077

RUN NO. 1162/ 0 RVL = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-24780	.20010	-.01020	.00840	-.00390	.09430	.03840
1.246	-8.000	-15640	.13220	-.01040	.00880	-.00320	.09350	.03970
1.246	-6.000	-07540	.07330	-.01130	.01040	-.00270	.09250	.04030
1.246	-5.000	-03920	.04720	-.01130	.01040	-.00290	.09290	.04080
1.246	-4.000	.00100	.01870	-.01120	.01020	-.00290	.09410	.04040
1.246	-2.000	.09330	-.03940	-.01140	.01030	-.00270	.09350	.03980
1.246	.000	.15760	-.09450	-.01320	.01210	-.00270	.09290	.04150
1.246	2.000	.22760	-.14820	-.01350	.01350	-.00280	.09030	.04240
1.246	4.000	.29930	-.19910	-.01970	.01690	-.00320	.08770	.04310
1.246	5.000	.34200	-.23230	-.01790	.01510	-.00240	.08580	.04470
1.246	6.000	.37500	-.25650	-.01680	.01400	-.00200	.08460	.04570
1.246	8.000	.40990	-.27340	-.01760	.01470	-.00280	.07600	.04550
1.246	10.000	.44900	-.30050	-.02400	.02000	-.00340	.07430	.04310
GRADIENT	.03764	-.02756	.00084	-.00084	.00063	.00001	-.00074	.00039

(R93020) (14 SEP 73)

MSFC 570 (IAB31F) (03) / (19) (U5) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 CONFIG = 101.000
DELTA Z = .140 RUDDER = .000
X-SFD = .000 CRBINC = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1190/ 0 RVL = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.965	-10.000	-.14970	.14190	-.00400	.00450	-.00200	.11550	.02020
1.965	-8.000	-.11440	.11110	-.00520	.00570	-.00190	.10790	.02160
1.965	-6.000	-.07590	.07720	-.00730	.00700	-.00210	.10140	.02310
1.965	-5.000	-.04910	.05480	-.00920	.00790	-.00230	.09990	.02350
1.965	-4.000	-.01890	.03130	-.00710	.00710	-.00190	.09530	.02350
1.965	-2.000	.04650	-.01990	-.00520	.00570	-.00120	.09240	.02310
1.965	.000	.11510	-.07280	-.00660	.00670	-.00140	.09920	.02400
1.965	2.000	.19250	-.13400	-.00640	.00650	-.00140	.09430	.02490
1.965	4.000	.28930	-.20530	-.01030	.00890	-.00250	.09590	.02590
1.965	5.000	.33170	-.23650	-.01030	.00910	-.00260	.09790	.02590
1.965	6.000	.36950	-.26330	-.01090	.00940	-.00270	.09940	.02190
1.965	8.000	.42330	-.30350	-.01240	.01020	-.00290	.10130	.02390
1.965	10.000	.45060	-.32190	-.01210	.01010	-.00290	.09420	.02490
GRADIENT		.03810	-.02926	-.00030	.00017	-.00005	-.00025	.00009

RUN NO. 1155/ 0 RVL = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.04840	.04120	-.00370	.00340	-.00120	.11700	.00760
3.480	-8.000	-.03630	.03340	-.00370	.00350	-.00110	.11030	.00860
3.480	-6.000	-.03710	.03560	-.00240	.00310	-.00070	.10170	.00930
3.480	-5.000	-.02590	.02750	-.00220	.00290	-.00090	.09540	.00920
3.480	-4.000	-.01870	.02210	-.00290	.00310	-.00100	.09250	.00930
3.480	-2.000	-.00670	.01290	-.00340	.00350	-.00100	.09510	.00990
3.480	.000	.01470	-.00240	-.00150	.00240	-.00030	.07810	.00930
3.480	2.000	.04110	-.02250	-.00040	.00140	-.00010	.07240	.00990
3.480	4.000	.07640	-.04990	-.00140	.00210	-.00020	.06970	.01010
3.480	5.000	.09200	-.06220	-.00200	.00240	-.00040	.06680	.01010
3.480	6.000	.10610	-.07330	-.00230	.00260	-.00050	.06490	.01000
3.480	8.000	.12910	-.09120	-.00200	.00260	-.00050	.06090	.01000
3.480	10.000	.14700	-.10660	-.00230	.00290	-.00000	.05610	.00990
GRADIENT		.01184	-.00997	.00014	-.00012	.00009	-.00001	.00009

MSFC 370 (1A31F) (G3) / (T9) (U5) / (S3/2) / (S3/2)

(R83021) (14 SEP 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1173/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.000	-.16640	.11660	-.01720	.01350	-.00400	.02210	.03070
.998	-8.000	-.10610	.07490	-.01970	.01590	-.00370	.02500	.02960
.998	-6.000	-.05130	.03770	-.01930	.01530	-.00320	.02710	.03040
.998	-5.000	-.02440	.02210	-.01650	.01340	-.00230	.02900	.03010
.998	-4.000	.00350	.00430	-.01350	.01260	-.00190	.03010	.02990
.998	-2.000	.06390	-.03730	-.01590	.01290	-.00190	.03030	.02970
.998	.000	.13020	-.08220	-.01460	.01220	-.00120	.02790	.02990
.998	2.000	.18890	-.12360	-.01620	.01300	-.00070	.02460	.02860
.998	4.000	.26710	-.17760	-.01630	.01310	.00060	.02100	.02790
.998	5.000	.30990	-.20110	-.01900	.01440	.00050	.01920	.02930
.998	6.000	.33680	-.22640	-.01940	.01560	.00040	.01590	.02890
.998	8.000	.41610	-.29210	-.02150	.01750	-.00010	.01220	.02970
.998	10.000	.48030	-.32700	-.01960	.01490	-.00090	.01610	.03020
GRADIENT	.03256	-.02240	-.00014	.00009	.00029	-.00113	-.00021	-.00021

RUN NO. 1172/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.13770	.10290	-.02070	.01690	-.00460	.04220	.03690
.902	-8.000	-.06320	.04930	-.02320	.01990	-.00470	.04370	.03440
.902	-6.000	.00230	.00430	-.02270	.01870	-.00470	.04700	.03240
.902	-5.000	.03390	-.01700	-.02250	.01950	-.00470	.04720	.03220
.902	-4.000	.06710	-.04010	-.02240	.01940	-.00450	.04690	.03320
.902	-2.000	.13610	-.08990	-.02240	.01840	-.00370	.04560	.03490
.902	.000	.20260	-.13560	-.02210	.01910	-.00320	.04430	.03210
.902	2.000	.26560	-.17970	-.02310	.01950	-.00320	.04150	.02950
.902	4.000	.33120	-.22460	-.02240	.01770	-.00270	.03960	.02930
.902	5.000	.35990	-.24290	-.02220	.01760	-.00260	.03840	.03120
.902	6.000	.38790	-.26230	-.02220	.01760	-.00250	.03910	.03240
.902	8.000	.45090	-.30330	-.02300	.01800	-.00190	.04090	.03240
.902	10.000	.50790	-.34400	-.02010	.01590	-.00140	.04390	.03220
GRADIENT	.03267	-.02277	.00000	.00000	-.00009	.00021	-.00090	-.00035

MSFC 370 (1A31F) (03)/(T9) (US) (S3/2)/(S3/2) (R03021) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COARFIC = 101.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CFSINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1171/ 0 RNVL = 6.49 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-1.6570	.13720	-.01360	.01210	-.00310	.07250	.03190
1.047	-8.000	-.04520	.07970	-.01990	.01400	-.00310	.07690	.02920
1.047	-6.000	-.00260	.01730	-.01610	.01440	-.00290	.07540	.02790
1.047	-5.000	.03960	-.01400	-.01530	.01360	-.00230	.07540	.02790
1.047	-4.000	.09330	-.04440	-.01490	.01350	-.00220	.07510	.02730
1.047	-2.000	.16960	-.10410	-.01490	.01320	-.00230	.07790	.02760
1.047	.000	.23690	-.16100	-.01540	.01340	-.00230	.07430	.02630
1.047	2.000	.29990	-.20260	-.01690	.01460	-.00240	.06960	.02350
1.047	4.000	.34690	-.23170	-.01590	.01360	-.00220	.06420	.02030
1.047	5.000	.37170	-.24690	-.01570	.01330	-.00180	.06320	.02030
1.047	6.000	.39600	-.26200	-.01560	.01310	-.00110	.06390	.02030
1.047	8.000	.44270	-.29250	-.01530	.01250	-.00040	.06470	.02140
1.047	10.000	.49020	-.32340	-.01460	.01160	-.00100	.06570	.02190
GRADIENT		.03339	-.02345	-.00011	-.00000	.00004	-.00169	-.00047

RUN NO. 1170/ 0 RNVL = 6.80 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-1.1730	.14990	-.01240	.01030	-.00410	.09330	.03950
1.246	-8.000	-.09350	.09910	-.01360	.01150	-.00390	.09430	.03940
1.246	-6.000	-.01260	.03090	-.01490	.01270	-.00390	.09350	.03930
1.246	-5.000	.02730	.00150	-.01550	.01330	-.00400	.09560	.03940
1.246	-4.000	.06600	-.02590	-.01550	.01320	-.00390	.09760	.03950
1.246	-2.000	.14410	-.08340	-.01490	.01250	-.00350	.09900	.03950
1.246	.000	.22360	-.14090	-.01500	.01290	-.00320	.09990	.03910
1.246	2.000	.29910	-.19500	-.01600	.01350	-.00320	.09720	.03890
1.246	4.000	.37910	-.25340	-.01620	.01370	-.00270	.09390	.04030
1.246	5.000	.41350	-.27850	-.01690	.01410	-.00200	.09340	.04150
1.246	6.000	.44340	-.29990	-.01750	.01450	-.00150	.09240	.04220
1.246	8.000	.48470	-.32330	-.01990	.01540	-.00100	.08790	.04170
1.246	10.000	.51570	-.34490	-.02140	.01760	-.00070	.08450	.04170
GRADIENT		.03977	-.02913	-.00014	.00000	.00017	-.00039	.00015

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03) / (79) (U5) / (S3/2) / (S3/2)

(R43021) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1191/ 0 RWL = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.12010	.11370	-.00700	.00660	-.00220	.10940	.02210
1.967	-8.000	-.08410	.09810	-.00670	.00650	-.00200	.10340	.02140
1.967	-6.000	-.03760	.05100	-.00690	.00700	-.00200	.10040	.02230
1.967	-5.000	-.01140	.02960	-.00730	.00730	-.00210	.09800	.02310
1.967	-4.000	.01720	.00690	-.00730	.00720	-.00200	.09610	.02330
1.967	-2.000	.07910	-.04150	-.00710	.00680	-.00170	.09330	.02340
1.967	.000	.14780	-.09450	-.00680	.00670	-.00160	.09230	.02290
1.967	2.000	.23200	-.15760	-.00780	.00720	-.00170	.09640	.02230
1.967	4.000	.32240	-.22430	-.00860	.00780	-.00200	.10120	.02250
1.967	5.000	.36760	-.25790	-.00930	.00820	-.00210	.10290	.02340
1.967	6.000	.40360	-.28590	-.00990	.00930	-.00210	.10390	.02400
1.967	8.000	.45600	-.32180	-.01020	.00970	-.00230	.10390	.02380
1.967	10.000	.49010	-.34540	-.01030	.00960	-.00220	.10210	.02430
GRADIENT		.03902	-.02883	-.00018	.00009	.00000	.00037	-.00005

RUN NO. 1156/ 0 RWL = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.02980	.03020	-.00190	.00240	-.00040	.11750	.00630
3.480	-8.000	-.01730	.02090	-.00160	.00240	-.00040	.10960	.00660
3.480	-6.000	.00090	.00740	-.00160	.00230	-.00030	.10190	.00970
3.480	-5.000	.00600	.00390	-.00170	.00240	-.00030	.09950	.00940
3.480	-4.000	.01260	-.00010	-.00130	.00210	-.00040	.09470	.00940
3.480	-2.000	.02840	-.01060	-.00040	.00140	-.00010	.08670	.00970
3.480	.000	.04510	-.02360	-.00160	.00200	-.00030	.07990	.01020
3.480	2.000	.07110	-.04270	-.00100	.00160	-.00010	.07490	.00990
3.480	4.000	.10920	-.07160	-.00180	.00220	-.00010	.07030	.01000
3.480	5.000	.12650	-.08440	-.00170	.00230	.00000	.06850	.01000
3.480	6.000	.14090	-.09320	-.00170	.00240	.00000	.06670	.00990
3.480	8.000	.16100	-.11090	-.00240	.00290	-.00030	.06430	.01010
3.480	10.000	.17590	-.12440	-.00310	.00330	-.00030	.06040	.01010
GRADIENT		.01194	-.00880	-.00004	.00000	.00004	-.00300	.00006

(193-222) (14 SEP 73)

MSFC 370 (1A31F) (031/ (79) (031/21) (031/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 CONFIC = 101.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CRDINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1181/ 0 RM/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CN	CBL	CAF	CAB
.590	-10.000	-.12230	.09750	-.01760	.01420	-.00360	.02310	.03040
.590	-5.000	-.06290	.04750	-.01660	.01510	-.00320	.02120	.02320
.590	-6.000	-.00890	.01080	-.02020	.01600	-.00330	.02490	.03030
.590	-5.000	.01720	-.00420	-.01980	.01490	-.00270	.03140	.02960
.590	-4.000	.04530	-.02200	-.01840	.01460	-.00250	.03270	.02930
.590	-2.000	.10630	-.06420	-.01870	.01470	-.00220	.03240	.02940
.590	.000	.17140	-.10950	-.01640	.01290	-.00090	.03370	.02960
.590	2.000	.23270	-.15100	-.02120	.01620	-.00190	.02630	.02860
.590	4.000	.31110	-.20490	-.02200	.01680	-.00120	.02250	.02870
.590	5.000	.34820	-.23040	-.02190	.01700	-.00090	.02000	.02820
.590	6.000	.39680	-.25710	-.02220	.01750	-.00070	.01950	.02830
.590	8.000	.47030	-.31580	-.02430	.01970	-.00030	.02440	.03030
.590	10.000	.53490	-.35980	-.02180	.01640	-.00170	.02480	.02960
GRADIENT		.03301	-.02262	-.00039	.00025	.00017	-.00122	-.00012

RUN NO. 1180/ 0 RM/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CN	CBL	CAF	CAB
.599	-10.000	-.09260	.06490	-.02150	.01780	-.00440	.04340	.03600
.599	-5.000	-.01450	.01570	-.02330	.01930	-.00470	.04670	.03490
.599	-6.000	.05120	-.02890	-.02440	.02000	-.00530	.04930	.03390
.599	-5.000	.08310	-.03180	-.02330	.02070	-.00350	.04940	.03390
.599	-4.000	.11990	-.07590	-.02330	.02070	-.00530	.05020	.03360
.599	-2.000	.19220	-.12360	-.02390	.01960	-.00390	.05180	.03290
.599	.000	.25370	-.15930	-.02220	.01830	-.00250	.04920	.03180
.599	2.000	.31850	-.21330	-.02120	.01710	-.00250	.04650	.02950
.599	4.000	.38220	-.25570	-.02410	.01880	-.00300	.04650	.02950
.599	5.000	.41140	-.27320	-.02330	.01860	-.00280	.04780	.03150
.599	6.000	.44140	-.29510	-.02320	.01840	-.00250	.04930	.03270
.599	8.000	.50370	-.33540	-.02340	.01940	-.00160	.05340	.03190
.599	10.000	.56810	-.38070	-.02160	.01680	-.00130	.05340	.03270
GRADIENT		.03266	-.02240	.00021	-.00026	.00029	-.00036	-.00036

MSFC 570 (TAB1F) (03)/(19) (U5)/(S3/2)/(S3/2)

(R53C22) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRG1INC = 1.000
 SPACER = .000 SPAC1A = .000
 SPACAP = .000

RUN NO. 1179/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.045	-10.000	-1.0300	.09370	-.01440	.01300	-.00290	.07390	.03200
1.045	-8.000	-.02450	.03550	-.01620	.01430	-.00280	.07980	.02950
1.045	-6.000	.03940	-.02690	-.01640	.01490	-.00290	.08230	.02840
1.045	-5.000	.10090	-.05770	-.01530	.01380	-.00230	.09250	.02910
1.045	-4.000	.14060	-.09690	-.01490	.01320	-.00220	.09290	.02940
1.045	-2.000	.21660	-.14230	-.01480	.01310	-.00240	.09240	.02890
1.045	.000	.28860	-.19320	-.01640	.01420	-.00230	.07950	.02690
1.045	2.000	.34690	-.23160	-.01690	.01440	-.00250	.07370	.02440
1.045	4.000	.39830	-.26350	-.01590	.01340	-.00210	.07120	.02100
1.045	5.000	.42560	-.29020	-.01590	.01330	-.00150	.07070	.02140
1.045	6.000	.45130	-.29680	-.01590	.01320	-.00110	.07100	.02150
1.045	8.000	.49630	-.32760	-.01610	.01320	-.00100	.07410	.02090
1.045	10.000	.53990	-.35760	-.01570	.01290	-.00110	.07400	.02150
GRADIENT		.03239	-.02217	-.00011	.00001	.00003	-.00137	-.00090

RUN NO. 1179/ 0 RN/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.11680	.10670	-.01330	.01130	-.00400	.09350	.03990
1.250	-8.000	-.03560	.04950	-.01410	.01200	-.00390	.09640	.03840
1.250	-6.000	.04510	-.00940	-.01500	.01260	-.00400	.09970	.03930
1.250	-5.000	.08650	-.03980	-.01590	.01310	-.00380	.10110	.03940
1.250	-4.000	.12540	-.06850	-.01560	.01310	-.00370	.10200	.03960
1.250	-2.000	.20330	-.12540	-.01480	.01220	-.00330	.10330	.03970
1.250	.000	.28580	-.18440	-.01430	.01190	-.00290	.10470	.03790
1.250	2.000	.36390	-.24030	-.01520	.01260	-.00300	.10470	.03870
1.250	4.000	.43840	-.29320	-.01540	.01280	-.00250	.10220	.03990
1.250	5.000	.46940	-.31270	-.01760	.01450	-.00160	.10190	.04040
1.250	6.000	.49690	-.33130	-.01990	.01590	-.00110	.10110	.04070
1.250	8.000	.54840	-.36520	-.01930	.01550	-.00140	.10000	.04070
1.250	10.000	.57710	-.38400	-.01840	.01460	-.00210	.09610	.04170
GRADIENT		.03870	-.02770	-.00012	.00007	.00019	.00009	.00017

(R93022) (14 SEP 73)

MSFC 570 (A31F) (03) (19) (03/2) (03/2) (03/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 CORFIC = 101.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORG INC = 1.000
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1192/ 0 RVL = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.980	-10.000	-.07460	.08080	-.00870	.00760	-.00230	.10790	.02290
1.980	-8.000	-.03190	.04950	-.00770	.00720	-.00240	.10510	.02140
1.980	-6.000	.01920	.01010	-.00750	.00740	-.00240	.10170	.02230
1.980	-5.000	.04410	-.00950	-.00780	.00760	-.00250	.09940	.02310
1.980	-4.000	.07030	-.03040	-.00820	.00770	-.00240	.09790	.02340
1.980	-2.000	.12770	-.07540	-.00940	.00760	-.00220	.09590	.02310
1.980	.000	.19830	-.12590	-.00770	.00730	-.00200	.09370	.02230
1.980	2.000	.27930	-.18950	-.00990	.00790	-.00220	.10060	.02190
1.980	4.000	.37010	-.25520	-.00940	.00930	-.00240	.10680	.02270
1.980	5.000	.41430	-.29750	-.00990	.00950	-.00230	.10990	.02390
1.980	6.000	.45090	-.31410	-.01030	.00970	-.00230	.11020	.02470
1.980	8.000	.49630	-.34550	-.01070	.00920	-.00270	.10970	.02410
1.980	10.000	.52840	-.36490	-.01100	.00930	-.00240	.10930	.02490
GRADIENT		.03724	-.02793	-.00019	.00004	.00001	.00103	-.00001

RUN NO. 1157/ 0 RVL = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.00410	.00760	-.00290	.00310	-.00060	.11950	.00630
3.480	-8.000	.02100	-.00620	-.00250	.00300	-.00050	.11030	.00930
3.480	-6.000	.03990	-.02030	-.00270	.00300	-.00070	.10390	.00940
3.480	-5.000	.04090	-.02080	-.00290	.00310	-.00090	.10070	.00950
3.480	-4.000	.04440	-.02240	-.00290	.00290	-.00090	.09700	.00950
3.480	-2.000	.05590	-.02960	-.00230	.00250	-.00060	.09320	.00970
3.480	.000	.07170	-.04100	-.00200	.00210	-.00040	.08820	.01000
3.480	2.000	.10090	-.06170	-.00170	.00220	-.00020	.07720	.00960
3.480	4.000	.13720	-.09030	-.00310	.00320	-.00050	.07130	.01000
3.480	5.000	.15710	-.10500	-.00290	.00310	-.00020	.07170	.00990
3.480	6.000	.17260	-.11590	-.00300	.00320	-.00010	.07010	.00990
3.480	8.000	.19960	-.12960	-.00430	.00410	-.00090	.06700	.01000
3.480	10.000	.20950	-.14670	-.00420	.00410	-.00050	.06400	.01070
GRADIENT		.01159	-.00942	.00000	.00001	.00005	-.00293	.00004

MSFC 370 (1A31F) (G31) / (T9) (U51) / (S3/2) / (S3/2)

(R83C23) (14 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFIG = 101.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1166/ 0 RVL = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.598	-10.000	-.27080	.18950	-.01040	.00930	-.00180	.02110	.02790
.598	-8.000	-.19530	.13650	-.00780	.00660	-.00120	.02190	.02940
.598	-6.000	-.13260	.09390	-.01100	.00900	-.00120	.02460	.02950
.598	-5.000	-.10520	.07670	-.01270	.01040	-.00160	.02690	.02900
.598	-4.000	-.07720	.05830	-.01360	.01120	-.00190	.02910	.02790
.598	-2.000	-.01720	.01710	-.01410	.01140	-.00200	.02920	.02860
.598	.000	.03490	-.03210	-.01560	.01230	-.00230	.02710	.02900
.598	2.000	.12800	-.09350	-.01570	.01240	-.00140	.02470	.02890
.598	4.000	.20530	-.13660	-.01450	.01140	-.00050	.01900	.03020
.598	5.000	.23850	-.15970	-.01560	.01210	-.00070	.01550	.02970
.598	6.000	.27260	-.18360	-.01670	.01270	-.00100	.01270	.02970
.598	8.000	.34230	-.23230	-.01820	.01340	-.00170	.00610	.03070
.598	10.000	.43150	-.29630	-.02340	.02010	-.00190	.00350	.03000
GRADIENT	.03499	-.02403	-.00024	.00013	.00012	-.00115	.00020	

RUN NO. 1167/ 0 RVL = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.902	-10.000	-.24300	.17530	-.01810	.01470	-.00420	.03700	.03670
.902	-8.000	-.16290	.11720	-.01910	.01560	-.00460	.03960	.03550
.902	-6.000	-.09800	.06480	-.02090	.01720	-.00440	.04090	.03470
.902	-5.000	-.05390	.04150	-.02130	.01790	-.00440	.04230	.03450
.902	-4.000	-.02200	.01990	-.02080	.01720	-.00420	.04320	.03410
.902	-2.000	.04240	-.02390	-.01970	.01640	-.00390	.04310	.03420
.902	.000	.11540	-.07450	-.02290	.01860	-.00340	.04110	.03550
.902	2.000	.18260	-.12210	-.02310	.01990	-.00490	.04010	.03360
.902	4.000	.23360	-.17070	-.01990	.01620	-.00270	.03690	.03250
.902	5.000	.28380	-.19090	-.02030	.01630	-.00340	.03420	.03310
.902	6.000	.31570	-.21260	-.02060	.01630	-.00370	.03230	.03350
.902	8.000	.36660	-.26240	-.02110	.01630	-.00310	.03140	.03370
.902	10.000	.45390	-.30930	-.02130	.01630	-.00230	.03250	.03590
GRADIENT	.03413	-.02357	-.00002	-.00003	.00010	-.00090	-.00016	

MSFC 570 (1A31F) (03) / (19) (05) / (S3/21) (S3/2)

(R93023) (14 SEP 75)

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 CONFIG = 101.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRPHC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1168/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-28220	.22340	-.00840	.00450	-.00170	.07320	.03190
1.049	-8.000	-19220	.15730	-.00990	.00960	-.00190	.07490	.03090
1.049	-6.000	-10910	.09810	-.01230	.01160	-.00200	.07510	.03000
1.049	-5.000	-.08920	.06630	-.01320	.01240	-.00230	.07660	.02370
1.049	-4.000	-.02660	.03470	-.01340	.01240	-.00230	.07720	.02340
1.049	-2.000	.06290	-.03120	-.01260	.01150	-.00160	.07740	.02470
1.049	.000	.14960	-.09390	-.01170	.01070	-.00150	.07500	.02770
1.049	2.000	.21990	-.14590	-.01290	.01140	-.00170	.07090	.02630
1.049	4.000	.27820	-.19990	-.01360	.01150	-.00190	.06410	.02460
1.049	5.000	.30230	-.19960	-.01340	.01140	-.00190	.06170	.02350
1.049	6.000	.32740	-.21490	-.01330	.01120	-.00180	.06010	.02300
1.049	8.000	.39220	-.24780	-.01390	.01100	-.00140	.05990	.02290
1.049	10.000	.44110	-.29010	-.01270	.00950	-.00110	.05560	.02190
GRADIENT		.03767	-.02709	-.00003	-.00010	.00004	-.00155	-.00051

RUN NO. 1169/ 0 RN/L = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.29970	.23840	-.01160	.00970	-.00330	.09020	.03570
1.253	-8.000	-.20290	.16630	-.01090	.00920	-.00330	.09020	.03630
1.253	-6.000	-.11040	.09810	-.01160	.01010	-.00320	.09070	.03710
1.253	-5.000	-.06710	.06670	-.01190	.01030	-.00310	.09120	.03740
1.253	-4.000	-.02170	.03390	-.01170	.01020	-.00300	.09190	.03770
1.253	-2.000	.06970	-.03090	-.01140	.00990	-.00290	.09340	.03910
1.253	.000	.15170	-.09080	-.01150	.01000	-.00280	.09330	.03990
1.253	2.000	.22840	-.14590	-.01190	.01120	-.00290	.09200	.03950
1.253	4.000	.29900	-.19650	-.01160	.01420	-.00340	.09020	.04030
1.253	5.000	.34040	-.22740	-.01630	.01350	-.00310	.08970	.04210
1.253	6.000	.37570	-.25300	-.01600	.01300	-.00290	.08990	.04290
1.253	8.000	.42610	-.29500	-.01720	.01400	-.00270	.08120	.04330
1.253	10.000	.47440	-.31710	-.01920	.01550	-.00350	.07310	.04210
GRADIENT		.04044	-.02913	-.00052	.00039	-.00002	-.00025	.00043

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03) / (T9) (U5) / (S3/2) / (S3/2)

(R03023) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 101.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRG INC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1193/ 0 RM/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.965	-10.000	-.19750	.17340	-.00330	.00330	-.00200	.11310	.02210
1.965	-6.000	-.15000	.13640	-.00610	.00630	-.00200	.10420	.02330
1.965	-6.000	-.10820	.10330	-.00640	.00650	-.00200	.09930	.02360
1.965	-5.000	-.08480	.08490	-.00640	.00650	-.00190	.09740	.02340
1.965	-4.000	-.06090	.06620	-.00610	.00630	-.00190	.09540	.02340
1.965	-2.000	-.00520	.02260	-.00610	.00640	-.00190	.09190	.02340
1.965	.000	.06330	-.03220	-.00700	.00690	-.00190	.09910	.02320
1.965	2.000	.14360	-.09250	-.00650	.00650	-.00160	.09560	.02360
1.965	4.000	.24020	-.16540	-.00980	.00790	-.00230	.09000	.02330
1.965	5.000	.29210	-.19690	-.00910	.00900	-.00240	.09010	.02290
1.965	6.000	.32030	-.22550	-.00940	.00920	-.00250	.09050	.02250
1.965	8.000	.39590	-.27490	-.01030	.00990	-.00260	.09270	.02360
1.965	10.000	.43360	-.30760	-.01060	.00990	-.00270	.09240	.02400
GRADIENT	.03707	-.02931	-.00029	.00015	-.00005	-.00079	-.00002	

RUN NO. 1156/ 0 RM/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	-.07070	.06070	-.00400	.00390	-.00120	.11950	.00760
3.480	-8.000	-.05910	.05150	-.00330	.00330	-.00100	.11190	.00840
3.480	-6.000	-.04970	.04550	-.00240	.00290	-.00070	.10410	.00920
3.480	-5.000	-.04150	.03990	-.00220	.00270	-.00070	.09990	.00970
3.480	-4.000	-.03500	.03510	-.00220	.00280	-.00070	.09560	.01020
3.480	-2.000	-.02210	.02560	-.00220	.00280	-.00070	.09750	.01060
3.480	.000	-.00280	.01240	-.00180	.00240	-.00050	.09130	.01010
3.480	2.000	.02220	-.00590	-.00100	.00190	-.00020	.07330	.01040
3.480	4.000	.03400	-.03040	-.00230	.00240	-.00050	.07010	.01090
3.480	5.000	.07390	-.04500	-.00190	.00220	-.00030	.06730	.01060
3.480	6.000	.09150	-.05920	-.00190	.00230	-.00030	.06420	.01050
3.480	8.000	.11890	-.07990	-.00320	.00340	-.00090	.06150	.01060
3.480	10.000	.14600	-.10090	-.00390	.00390	-.00110	.05790	.01070
GRADIENT	.01135	-.00932	.00004	-.00007	-.00004	-.00320	.00006	

MSFC 570 (1A31F) (03) / (T9) (U5) / (S3/2) / (S3/2)

(R95024) (14 SEP 73)

REFERENCE DATA

BRP = 6.1990 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 CONFIG = 101.000
 DELTAZ = .290 RUDDER = .000
 X-SR9 = .000 ORDINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

PARAMETRIC DATA

RUN NO. 1174/ 0 RNVL = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAG
.599	-10.000	-.22490	.15700	-.00990	.00430	-.00200	.01900	.02440
.599	-9.000	-.13200	.10730	-.01220	.01000	-.00170	.02280	.02400
.599	-8.000	-.09410	.06900	-.01330	.01090	-.00180	.02570	.02460
.599	-7.000	-.06630	.03090	-.01440	.01160	-.00210	.02670	.02500
.599	-6.000	-.03700	.03200	-.01470	.01190	-.00220	.02740	.02550
.599	-5.000	.02890	-.01130	-.01420	.01140	-.00190	.02980	.02570
.599	-4.000	.10090	-.06110	-.01450	.01170	-.00160	.02740	.02920
.599	-3.000	.17330	-.11240	-.01230	.01020	.00010	.02610	.02900
.599	-2.000	.24790	-.16430	-.01560	.01210	-.00010	.01610	.02990
.599	-1.000	.29410	-.18910	-.01590	.01290	-.00040	.01360	.03010
.599	0.000	.32120	-.21480	-.01950	.01410	-.00130	.00970	.03000
.599	1.000	.39470	-.26940	-.02240	.01740	-.00220	.01140	.03140
.599	2.000	.47400	-.32110	-.02090	.01610	-.00200	.01550	.03000
GRADIENT		.03539	-.02430	-.00014	.00006	.00021	-.00104	.00005

RUN NO. 1175/ 0 RNVL = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAG
.902	-10.000	-.17960	.13930	-.01710	.01430	-.00390	.03750	.03540
.902	-9.000	-.10230	.07560	-.01730	.01490	-.00330	.03990	.03520
.902	-8.000	-.03450	.02960	-.01990	.01660	-.00390	.04290	.03440
.902	-7.000	-.00860	.00370	-.02090	.01730	-.00440	.04470	.03370
.902	-6.000	.03270	-.01670	-.02060	.01710	-.00430	.04520	.03370
.902	-5.000	.10070	-.06290	-.01930	.01600	-.00330	.04490	.03390
.902	-4.000	.17140	-.11200	-.02040	.01670	-.00320	.04490	.03290
.902	-3.000	.23950	-.15930	-.02040	.01600	-.00280	.04230	.03290
.902	-2.000	.30690	-.20800	-.01910	.01540	-.00220	.04020	.03260
.902	-1.000	.33670	-.22710	-.01990	.01570	-.00240	.03990	.03300
.902	0.000	.37090	-.24480	-.02040	.01610	-.00260	.03920	.03350
.902	1.000	.43740	-.29450	-.02140	.01670	-.00290	.03960	.03140
.902	2.000	.50280	-.33930	-.02160	.01690	-.00240	.04310	.03450
GRADIENT		.03409	-.02349	.00010	-.00015	.00022	-.00061	-.00011

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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (C3) / (T9) (U5) / (S3/2) / (S3/2)

(R93024) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTC = 101.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CPBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1176/ 0 RNVL = 6.50 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-2.1100	.17090	-.01120	.01060	-.00240	.07260	.03060
1.050	-8.000	-.12640	.10940	-.01350	.01240	-.00240	.07560	.02970
1.050	-6.000	-.04210	.04790	-.01410	.01300	-.00230	.07840	.02910
1.050	-5.000	.00170	.01560	-.01370	.01270	-.00200	.07930	.02900
1.050	-4.000	.04480	-.01600	-.01340	.01240	-.00190	.08010	.02880
1.050	-2.000	.13000	-.07840	-.01300	.01170	-.00180	.08080	.02810
1.050	.000	.21220	-.13800	-.01340	.01190	-.00190	.07910	.02680
1.050	2.000	.27950	-.18920	-.01490	.01270	-.00230	.07320	.02490
1.050	4.000	.33460	-.22060	-.01460	.01250	-.00240	.06770	.02260
1.050	5.000	.35980	-.23650	-.01500	.01260	-.00220	.06630	.02220
1.050	6.000	.36600	-.25320	-.01520	.01260	-.00200	.06550	.02210
1.050	8.000	.44110	-.28860	-.01540	.01240	-.00160	.06620	.02260
1.050	10.000	.49880	-.32890	-.01550	.01240	-.00170	.06750	.02270
GRADIENT		.03610	-.02547	-.00017	.00002	-.00004	-.00144	-.00073

RUN NO. 1177/ 0 RNVL = 6.59 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.243	-10.000	-.23700	.19330	-.00940	.00950	-.00270	.08920	.03920
1.243	-8.000	-.14370	.12470	-.01120	.00990	-.00300	.09070	.03990
1.243	-6.000	-.05360	.05970	-.01250	.01110	-.00300	.09340	.04020
1.243	-5.000	-.00870	.02750	-.01240	.01100	-.00300	.09310	.04030
1.243	-4.000	.03480	-.00380	-.01250	.01110	-.00300	.09660	.04040
1.243	-2.000	.12000	-.06310	-.01320	.01150	-.00310	.09970	.04040
1.243	.000	.20330	-.12530	-.01400	.01210	-.00320	.09860	.04090
1.243	2.000	.28380	-.18360	-.01490	.01250	-.00310	.09740	.04090
1.243	4.000	.36590	-.24250	-.01600	.01330	-.00310	.09560	.04060
1.243	5.000	.40410	-.26960	-.01670	.01380	-.00290	.09520	.04150
1.243	6.000	.43840	-.29340	-.01730	.01420	-.00260	.09440	.04220
1.243	8.000	.49420	-.32950	-.01850	.01490	-.00250	.09110	.04230
1.243	10.000	.54230	-.36290	-.02070	.01670	-.00320	.08870	.04290
GRADIENT		.04129	-.02975	-.00043	.00024	.00000	-.00007	.00009

MSFC 570 (1A31F) (C3) / (T9) (U3) / (S3/2) / (S3/2)

(R33C24) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 9.3130 IN. YMRP = .0000 IN.
BREF = 9.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 COAF10 = 101.000
DELTAZ = .290 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1194/ 0 RNVL = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.968	-10.000	-.13670	.12720	-.00710	.00700	-.00220	.10720	.02270
1.968	-8.000	-.10080	.09950	-.00700	.00690	-.00220	.10190	.02350
1.968	-6.000	-.05970	.06770	-.00690	.00690	-.00210	.09770	.02420
1.968	-5.000	-.03570	.04870	-.00720	.00710	-.00220	.09630	.02400
1.968	-4.000	-.00930	.02830	-.00700	.00690	-.00210	.09300	.02400
1.968	-2.000	.00030	-.01170	-.00640	.00650	-.00170	.09270	.02390
1.968	.000	.11930	-.07000	-.00660	.00650	-.00160	.09100	.02360
1.968	2.000	.19630	-.12830	-.00720	.00670	-.00170	.09110	.02350
1.968	4.000	.28650	-.19670	-.00850	.00770	-.00220	.09140	.02360
1.968	5.000	.32520	-.22570	-.00910	.00790	-.00230	.09390	.02290
1.968	6.000	.36290	-.25340	-.00960	.00810	-.00240	.09310	.02260
1.968	8.000	.43750	-.30670	-.01040	.00860	-.00270	.09990	.02370
1.968	10.000	.47790	-.33400	-.01090	.00910	-.00280	.10040	.02430
GRADIENT		.03644	-.02772	-.00019	.00004	-.00001	-.00024	-.00009

RUN NO. 1159/ 0 RNVL = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.04150	.04160	-.00330	.00340	-.00100	.11900	.00690
3.480	-8.000	-.03110	.03340	-.00300	.00310	-.00090	.11100	.00830
3.480	-6.000	-.01910	.02430	-.00280	.00290	-.00090	.10360	.00920
3.480	-5.000	-.01410	.02050	-.00300	.00320	-.00100	.10030	.00940
3.480	-4.000	-.00860	.01650	-.00300	.00310	-.00100	.09870	.00970
3.480	-2.000	.00480	.00720	-.00220	.00250	-.00090	.09920	.01010
3.480	.000	.02360	-.00370	-.00160	.00210	-.00090	.09240	.01030
3.480	2.000	.04820	-.02390	-.00170	.00210	-.00090	.07670	.01040
3.480	4.000	.09080	-.04900	-.00190	.00230	-.00090	.07150	.01050
3.480	5.000	.10240	-.06490	-.00280	.00290	-.00090	.06920	.01050
3.480	6.000	.12140	-.07950	-.00320	.00340	-.00090	.06710	.01050
3.480	8.000	.15040	-.10200	-.00360	.00390	-.00120	.06390	.01070
3.480	10.000	.18010	-.12450	-.00420	.00430	-.00140	.06390	.01090
GRADIENT		.01141	-.00930	.00003	-.00006	.00006	-.00012	.00014

MSFC 570 (1A31F) (03)/(T9) (U5)/(S3/2)/(S3/2)

(R83025) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLG = 101.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1182/ 0 RVL = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.995	-10.000	-1.16320	.11510	-.01200	.00980	-.00220	.01920	.02950
.995	-8.000	-.10050	.07290	-.01600	.01260	-.00270	.02350	.02950
.995	-6.000	-.04690	.03820	-.01630	.01300	-.00270	.02740	.02910
.995	-5.000	-.01470	.01780	-.01610	.01280	-.00260	.02870	.02940
.995	-4.000	.01740	-.00320	-.01600	.01270	-.00250	.02980	.02950
.995	-2.000	.08260	-.04770	-.01590	.01250	-.00230	.03060	.02940
.995	.000	.15350	-.09560	-.01550	.01220	-.00170	.02840	.03010
.995	2.000	.22540	-.14600	-.01660	.01280	-.00100	.02480	.03020
.995	4.000	.30000	-.19730	-.01680	.01290	.00000	.02100	.03030
.995	5.000	.34110	-.22580	-.01870	.01420	-.00080	.01810	.03010
.995	6.000	.38180	-.25390	-.02050	.01560	-.00140	.01740	.03020
.995	8.000	.46250	-.30950	-.02410	.01850	-.00240	.02220	.03120
.995	10.000	.53350	-.35780	-.02230	.01660	-.00260	.02940	.03210
GRADIENT		.03550	-.02434	-.00020	.00009	.00024	-.00111	.00009

RUN NO. 1183/ 0 RVL = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.906	-10.000	-.12370	.09200	-.01970	.01630	-.00440	.03970	.03570
.906	-8.000	-.05090	.04120	-.02100	.01740	-.00430	.04310	.03520
.906	-6.000	.01710	-.00510	-.02170	.01790	-.00470	.04650	.03460
.906	-5.000	.05190	-.02870	-.02130	.01770	-.00460	.04790	.03410
.906	-4.000	.08620	-.05170	-.02110	.01740	-.00440	.04880	.03390
.906	-2.000	.15460	-.09780	-.02110	.01730	-.00350	.04950	.03330
.906	.000	.22390	-.14570	-.02120	.01720	-.00290	.04920	.03200
.906	2.000	.29270	-.19370	-.01980	.01600	-.00260	.04700	.03280
.906	4.000	.36020	-.23970	-.02110	.01660	-.00260	.04590	.03320
.906	5.000	.39300	-.26100	-.02120	.01650	-.00260	.04740	.03320
.906	6.000	.42610	-.28290	-.02140	.01670	-.00260	.04870	.03330
.906	8.000	.49330	-.32840	-.02220	.01730	-.00230	.05160	.03430
.906	10.000	.56360	-.37640	-.02260	.01740	-.00290	.05590	.03430
GRADIENT		.03420	-.02339	.00003	-.00013	.00021	-.00021	-.00009

MSFC 570 (1A31F) (03) / (T9) (U5) / (S3/2) / (S3/2)

(R83C25) (14 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COAFTG = 101.000
 DELTAZ = .290 RUDDER = .000
 X-SFG = .000 CRDINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 1184/ 0 RVL = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAG
1.032	-10.000	-1.15170	.12850	-.01400	.01270	-.00300	.07350	.03100
1.032	-8.000	-.06730	.06750	-.01350	.01400	-.00290	.07430	.03010
1.032	-6.000	.01900	.00490	-.01320	.01370	-.00280	.09220	.02940
1.032	-5.000	.06200	-.02550	-.01450	.01310	-.00230	.09350	.02940
1.032	-4.000	.10420	-.05720	-.01410	.01260	-.00220	.09440	.02940
1.032	-2.000	.18720	-.11730	-.01400	.01220	-.00230	.09470	.02990
1.032	.000	.26620	-.17370	-.01310	.01280	-.00240	.09240	.02740
1.032	2.000	.32990	-.21640	-.01620	.01350	-.00270	.09240	.02310
1.032	4.000	.39590	-.23160	-.01590	.01330	-.00270	.07420	.02290
1.032	5.000	.41320	-.25920	-.01620	.01330	-.00290	.07370	.02290
1.032	6.000	.44100	-.28730	-.01650	.01340	-.00230	.07390	.02290
1.032	8.000	.49760	-.32490	-.01590	.01350	-.00190	.07600	.02320
1.032	10.000	.55450	-.36470	-.01740	.01400	-.00200	.07940	.02400
GRADIENT		.03320	-.02433	-.00021	.00037	-.00004	-.00115	-.00074

RUN NO. 1185/ 0 RVL = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAG
1.248	-10.000	-1.17540	.14990	-.01090	.00970	-.00310	.09940	.04020
1.248	-8.000	-.08310	.08200	-.01260	.01100	-.00330	.09220	.04020
1.248	-6.000	.00720	.01730	-.01370	.01190	-.00350	.09700	.04020
1.248	-5.000	.05190	-.01450	-.01390	.01200	-.00350	.09910	.04030
1.248	-4.000	.09410	-.04500	-.01400	.01200	-.00350	.10090	.04040
1.248	-2.000	.17720	-.10470	-.01410	.01200	-.00330	.10340	.04050
1.248	.000	.26230	-.16550	-.01450	.01230	-.00330	.10450	.04030
1.248	2.000	.34410	-.22390	-.01540	.01250	-.00330	.10450	.04050
1.248	4.000	.42540	-.28140	-.01640	.01350	-.00330	.10390	.04120
1.248	5.000	.46140	-.30590	-.01760	.01430	-.00290	.10370	.04150
1.248	8.000	.49540	-.32990	-.01940	.01500	-.00250	.10350	.04190
1.248	9.000	.53700	-.36980	-.01920	.01540	-.00250	.10350	.04190
1.248	10.000	.59270	-.40120	-.02050	.01630	-.00310	.10350	.04310
GRADIENT		.04119	-.02934	-.00034	.00021	.00005	.00040	.00007

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (G3)/(T9) (U3)/(S3/2)/(S3/2)

(R83025) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 101.000
 DELTAZ = .280 RUDDER = .000
 X-SFB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1195/ 0 RWL = 7.02 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.979	-10.000	-.09980	.09100	-.00810	.00760	-.00240	.10660	.02320
1.979	-8.000	-.08290	.08350	-.00730	.00730	-.00230	.10210	.02370
1.979	-6.000	-.05940	.03070	-.00730	.00720	-.00230	.09960	.02410
1.979	-5.000	.01510	.01170	-.00730	.00740	-.00230	.09790	.02390
1.979	-4.000	.04240	-.00920	-.00760	.00730	-.00230	.09620	.02390
1.979	-2.000	.10250	-.03540	-.00740	.00710	-.00230	.09400	.02390
1.979	.000	.16910	-.10520	-.00730	.00710	-.00190	.09310	.02340
1.979	2.000	.24290	-.16100	-.00820	.00740	-.00210	.09480	.02290
1.979	4.000	.33320	-.22810	-.00900	.00790	-.00230	.09830	.02290
1.979	5.000	.37370	-.25810	-.00980	.00840	-.00250	.09960	.02290
1.979	6.000	.41120	-.29540	-.01040	.00880	-.00270	.10100	.02310
1.979	8.000	.47710	-.33190	-.01080	.00920	-.00290	.10390	.02350
1.979	10.000	.51710	-.35900	-.01130	.00960	-.00290	.10510	.02450
GRADIENT	.03596	-.02706	-.00021	-.00009	-.00009	-.00001	.00022	-.00012

RUN NO. 1160/ 0 RWL = 7.01 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.00540	.01740	-.00360	.00350	-.00100	.11670	.00660
3.480	-8.000	.00520	.00910	-.00300	.00310	-.00090	.11090	.00810
3.480	-6.000	.01690	.00000	-.00330	.00330	-.00100	.10430	.00890
3.480	-5.000	.02040	-.00250	-.00320	.00330	-.00110	.10120	.00890
3.480	-4.000	.02500	-.00580	-.00290	.00310	-.00100	.09790	.00930
3.480	-2.000	.03700	-.01390	-.00200	.00240	-.00060	.09130	.00980
3.480	.000	.05240	-.02470	-.00190	.00230	-.00050	.08510	.00990
3.480	2.000	.07510	-.04190	-.00230	.00250	-.00050	.07940	.01000
3.480	4.000	.10860	-.06740	-.00390	.00370	-.00070	.07420	.01050
3.480	5.000	.13230	-.09560	-.00340	.00350	-.00060	.07220	.01060
3.480	6.000	.15280	-.10130	-.00330	.00360	-.00060	.07030	.01070
3.480	8.000	.18270	-.12470	-.00460	.00440	-.00060	.06730	.01080
3.480	10.000	.21170	-.14600	-.00380	.00400	-.00090	.06400	.01060
GRADIENT	.01078	-.00798	-.00006	-.00006	.00004	.00004	-.00293	.00015

NSFC 570 (1A31F) (C3) / (T9) (U3) / (S3/2) / (S3/2)

(R93C26) (14 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 SPACING = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 1189/ 0 RNVL = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	.11390	-.08470	.20370	-.13170	.08370	.01210	.03330
.598	-8.000	.12690	-.09140	.15790	-.10190	.03310	.01760	.03470
.598	-6.000	.12900	-.09970	.11650	-.07820	.04040	.02230	.03070
.598	-4.000	.12150	-.07840	.07350	-.04760	.02610	.02440	.03050
.598	-2.000	.12020	-.07510	.03270	-.02030	.01340	.02700	.03040
.598	.000	.13270	-.08210	-.01050	.00890	-.00090	.02960	.02960
.598	2.000	.13860	-.08990	-.03390	.03730	-.01470	.02630	.03060
.598	4.000	.13970	-.09200	-.08450	.06450	-.02770	.02450	.03070
.598	6.000	.13850	-.09570	-.13960	.09490	-.04210	.02040	.03350
.598	8.000	.14110	-.10190	-.18130	.12170	-.03510	.01660	.03650
.598	10.000	.14160	-.10700	-.21990	.14390	-.06590	.01090	.04040
GRADIENT	.00274	-.00205	-.02112	.01409	-.00679	-.00004		.00003

RUN NO. 1188/ 0 RNVL = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	.17590	-.12980	.23000	-.14960	.07190	.03420	.04110
.901	-8.000	.19030	-.13660	.18590	-.12330	.05960	.03920	.03950
.901	-6.000	.19960	-.14010	.13660	-.09120	.04550	.03870	.03750
.901	-4.000	.20780	-.14320	.08700	-.05740	.02990	.04170	.03440
.901	-2.000	.21150	-.14240	.03820	-.02390	.01470	.04370	.03170
.901	.000	.20630	-.13540	-.01190	.01050	-.00050	.04480	.03210
.901	2.000	.20490	-.13900	-.05950	.04310	-.01570	.04100	.03510
.901	4.000	.20550	-.13990	-.10650	.07570	-.03090	.04170	.03520
.901	6.000	.20290	-.14080	-.15740	.11050	-.04600	.03910	.03900
.901	8.000	.19850	-.14200	-.20020	.13610	-.05770	.03550	.04130
.901	10.000	.19750	-.13970	-.24370	.16170	-.06970	.03250	.04530
GRADIENT	-.00056	.00055	-.02423	.01566	-.00759	-.00013		.00030

MSFC 570(1A31F)(03)/(79)(U3)/(S3/2)/(S3/2)

(R03026) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF10 = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1187/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.054	-10.000	.19430	-.13230	.24170	-.15930	.09070	.06930	.03650
1.054	-8.000	.20690	-.13830	.19200	-.12910	.06560	.07410	.03400
1.054	-6.000	.22240	-.14870	.14440	-.09980	.03000	.07470	.03230
1.054	-4.000	.24170	-.16190	.09190	-.06290	.03360	.07700	.02990
1.054	-2.000	.25240	-.16910	.03960	-.02590	.01630	.07790	.02920
1.054	.000	.24980	-.16560	-.01010	.00870	-.00120	.07840	.02900
1.054	2.000	.24510	-.16240	-.03940	.04330	-.01900	.07790	.02990
1.054	4.000	.24030	-.15890	-.10970	.07890	-.03500	.07610	.03280
1.054	6.000	.22890	-.15220	-.16970	.11360	-.03160	.07300	.03330
1.054	8.000	.21160	-.14010	-.20950	.14390	-.06710	.07060	.03710
1.054	10.000	.19640	-.13400	-.23740	.17370	-.09220	.06400	.03980
	GRADIENT	-.00050	.00053	-.02511	.01765	-.00957	-.00009	.00039

RUN NO. 1186/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	.21040	-.14420	.21780	-.13500	.09260	.09750	.04390
1.251	-8.000	.21490	-.14340	.17060	-.10830	.06730	.09240	.04180
1.251	-6.000	.22490	-.14890	.12420	-.07990	.05090	.09370	.04130
1.251	-4.000	.23720	-.15630	.07740	-.04930	.03300	.09900	.03900
1.251	-2.000	.23880	-.15580	.03280	-.01940	.01340	.09780	.03720
1.251	.000	.24000	-.15530	-.01000	.00900	-.00160	.09940	.03760
1.251	2.000	.23900	-.15360	-.05480	.03940	-.01320	.09900	.03890
1.251	4.000	.23470	-.15390	-.10170	.07180	-.03750	.09610	.04170
1.251	6.000	.22590	-.15020	-.14970	.10370	-.05590	.09330	.04470
1.251	8.000	.22240	-.14960	-.19360	.12990	-.07110	.09930	.04390
1.251	10.000	.22070	-.15290	-.24100	.15600	-.08610	.09460	.04750
	GRADIENT	-.00029	.00036	-.02229	.01503	-.00878	-.00019	.00036

NSFC 570 (1A31F) (03) / (T9) (U3) / (S3/2) / (S3/2)

(R43026) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF10 = 101.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1196/ 0 RN/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CDL	CAF	CAS
1.977	-10.000	.13670	-.03490	.22240	-.13580	.07230	.09200	.02940
1.977	-8.000	.13610	-.03200	.15920	-.10300	.03450	.09090	.02760
1.977	-6.000	.13590	-.03860	.11960	-.07320	.03830	.08970	.02630
1.977	-4.000	.13900	-.04750	.07570	-.04570	.02420	.09050	.02410
1.977	-2.000	.14250	-.04990	.03590	-.02090	.01180	.09110	.02290
1.977	.000	.14220	-.04840	-.00540	.00520	-.00120	.09120	.02390
1.977	2.000	.14330	-.04990	-.04690	.03140	-.01450	.09220	.02500
1.977	4.000	.14070	-.04930	-.05940	.05940	-.02920	.09320	.02620
1.977	6.000	.14370	-.09290	-.14110	.09090	-.04390	.09920	.02990
1.977	8.000	.14470	-.09740	-.18610	.11980	-.05990	.09410	.03110
1.977	10.000	.14540	-.10230	-.23920	.14990	-.07610	.09220	.03130
GRADIENT		.00031	-.00012	-.02092	.01312	-.00655	.00053	.00032

RUN NO. 1161/ 0 RN/L = 7.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CDL	CAF	CAS
3.480	-10.000	.03970	-.04070	.17590	-.10700	.03480	.04020	.01150
3.480	-8.000	.03280	-.03490	.13540	-.08260	.04240	.07960	.01070
3.480	-6.000	.04170	-.02450	.09910	-.06070	.03140	.07930	.01050
3.480	-4.000	.04210	-.02220	.05620	-.04070	.02090	.07470	.01020
3.480	-2.000	.04070	-.01970	.03210	-.01940	.01020	.07910	.01020
3.480	.000	.04060	-.02020	-.00220	.00250	-.00050	.07450	.01010
3.480	2.000	.03910	-.01970	-.03540	.02350	-.01090	.07790	.01040
3.480	4.000	.04550	-.02470	-.05950	.04540	-.02130	.07510	.01040
3.480	6.000	.04960	-.02970	-.10520	.06740	-.03290	.07500	.01100
3.480	8.000	.05100	-.03340	-.14270	.09000	-.04410	.07920	.01100
3.480	10.000	.05990	-.04090	-.18340	.11490	-.05670	.09250	.01220
GRADIENT		.00021	-.00020	-.01694	.01075	-.00525	.00003	.00003

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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (03) / (T9) / (S3/2) / (S3/2) Y1E

(R93040) (04 OCT 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

SETA = .000 CONF16 = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SR3 = .000 CRBINC = .500
 SPACER = 7.000 SPADIA = .100
 SPACAP = .050

RUN NO. 1837/ 1 RNL = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.32830	.26120	-.02720	.01920	-.00880	.07920	.04020
1.253	-9.000	-.23340	.19930	-.02350	.01770	-.00690	.09020	.03920
1.253	-8.000	-.14210	.12130	-.02460	.01710	-.00700	.08290	.03900
1.253	-4.000	-.05550	.05720	-.02370	.01680	-.00680	.09350	.03920
1.253	-2.000	.03330	-.00940	-.02230	.01590	-.00610	.09800	.03890
1.253	.000	.12840	-.07720	-.02130	.01530	-.00350	.09940	.03820
1.253	2.000	.21400	-.13840	-.02220	.01630	-.00350	.09890	.03930
1.253	4.000	.29130	-.19220	-.02480	.01870	-.00630	.09830	.04030
1.253	6.000	.37670	-.25250	-.02460	.01930	-.00600	.09690	.04060
1.253	8.000	.43430	-.29130	-.02630	.02000	-.00600	.09370	.04160
1.253	10.000	.48070	-.32330	-.02560	.01980	-.00660	.09060	.04250
	GRADIENT	.04361	-.03139	-.00010	.00021	.00009	.00032	.00013

MSFC 370 (IASIF) (C3)/(T9)/(S3/2)/(S3/2)1E

(R93C41) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 JCGINC = .500
 SPACER = 9.100 SPADIA = .200
 SPACAP = .050

RUN NO. 1211/ 1 RN/L = 6.66 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.31330	.34920	-.02660	.01910	-.00690	.04040	.03790
1.253	-6.000	-.21910	.17940	-.02450	.01740	-.00660	.03220	.03700
1.253	-6.000	-.13270	.11400	-.02350	.01590	-.00670	.03440	.03720
1.253	-4.000	-.04890	.05230	-.02230	.01620	-.00650	.03690	.03740
1.253	-2.000	.04200	-.01400	-.02090	.01520	-.00590	.03990	.03720
1.253	.000	.13350	-.09060	-.02030	.01490	-.00520	.03940	.03690
1.253	2.000	.21690	-.14070	-.02100	.01360	-.00530	.03940	.03790
1.253	4.000	.29260	-.19340	-.02300	.01730	-.00570	.03730	.03930
1.253	6.000	.37570	-.25140	-.02510	.01930	-.00620	.03630	.04000
1.253	8.000	.42770	-.29610	-.02500	.01920	-.00650	.03270	.04000
1.253	10.000	.47660	-.32090	-.02490	.01950	-.00690	.03010	.04050
	GRADIENT	.04299	-.03090	-.00004	.00015	.00011	.00004	.00025

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F)(03)/(T9)/(S3/2)/(S3/2)Y1E

(R83042) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRDINC = .500
 SPACER = 11.120 SPADIA = .300
 SPAGAP = .050

RUN NO. 1218/ 1 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	C/N	CBL	CAF	CAB
1.255	-10.000	-3.1280	.24990	-.02670	.01910	-.00700	.07940	.03760
1.255	-8.000	-.22220	.18050	-.02460	.01750	-.00690	.09060	.03910
1.255	-6.000	-.13670	.11690	-.02410	.01740	-.00710	.08330	.03920
1.255	-4.000	-.05430	.05570	-.02350	.01720	-.00690	.08370	.03930
1.255	-2.000	.03270	-.00840	-.02220	.01640	-.00630	.08750	.03950
1.255	.000	.12210	-.07370	-.02190	.01590	-.00590	.08930	.03930
1.255	2.000	.20430	-.13200	-.02190	.01610	-.00570	.08760	.03890
1.255	4.000	.27750	-.18300	-.02420	.01630	-.00630	.08600	.04020
1.255	6.000	.35620	-.23900	-.02570	.01990	-.00660	.08460	.04100
1.255	8.000	.40650	-.27150	-.02550	.01990	-.00690	.08040	.04070
1.255	10.000	.44820	-.30240	-.02660	.02100	-.00730	.07740	.04160
	GRADIENT	.04175	-.03005	-.00005	.00010	.00009	.00004	.00021

MSFC 570 (1A31F) (G3) / (T9) / (S3/2) / (S3/2) Y1E

(R93043) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SB = .000 CFTINC = .500
 SPACER = 13.140 SPADIA = .200
 SPAGAP = .100

RUN NO. 1219/ 0 RV/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.251	-10.000	-.33070	.26230	-.02690	.01990	-.00700	.07910	.04010
1.251	-8.000	-.22110	.17930	-.02470	.01720	-.00690	.09010	.03940
1.251	-6.000	-.15270	.12950	-.02410	.01590	-.00700	.09190	.03930
1.251	-4.000	-.06700	.05340	-.02310	.01520	-.00670	.09430	.03910
1.251	-2.000	.02470	-.00170	-.02150	.01520	-.00600	.09650	.03900
1.251	.000	.12090	-.07170	-.02090	.01490	-.00550	.09720	.03900
1.251	2.000	.20690	-.13390	-.02220	.01610	-.00560	.09700	.04000
1.251	4.000	.28340	-.19720	-.02430	.01850	-.00620	.09640	.04150
1.251	6.000	.36490	-.24440	-.02720	.02120	-.00670	.09590	.04270
1.251	8.000	.41860	-.28010	-.02920	.02200	-.00740	.09290	.04320
1.251	10.000	.47070	-.31720	-.02950	.02250	-.00790	.09090	.04440
GRADIENT		.04414	-.03197	-.00015	.00027	.00007	.00023	.00030

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03) / (T8) / (S3/2) / (S3/2) Y1E

(R83044) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = 19.100 SPADIA = .200
 SFAGAP = .050

RUN NO. 1212/ 0 RVL = 6.66 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	Cy	CYN	CBL	CAF	CAB
1.253	-10.000	-.26200	.21040	-.02610	.01900	-.00670	.07990	.03650
1.253	-8.000	-.16970	.14150	-.02370	.01710	-.00660	.09300	.03790
1.253	-6.000	-.09000	.07610	-.02250	.01630	-.00660	.09710	.03790
1.253	-4.000	.00740	.01250	-.02180	.01590	-.00640	.09060	.03630
1.253	-2.000	.09680	-.05260	-.02090	.01530	-.00590	.09330	.03950
1.253	.000	.18660	-.11730	-.02070	.01530	-.00540	.09510	.03800
1.253	2.000	.27120	-.17750	-.02130	.01590	-.00540	.09520	.03870
1.253	4.000	.34450	-.22910	-.02420	.01930	-.00620	.09440	.04050
1.253	6.000	.42230	-.28170	-.02590	.01980	-.00590	.09370	.04150
1.253	8.000	.49010	-.32730	-.02470	.01900	-.00620	.09310	.04120
1.253	10.000	.54050	-.36210	-.02570	.01970	-.00720	.09130	.04260
GRADIENT	.04243	-.03030	-.00026	-.00026	.00027	.00004	.00049	.00024

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1990 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONF16 = 104.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = -.000
SPACER = 20.100 SPADIA = .200
SPACAP = .000

RUN NO. 1213/ 1 RIVL = 6.65 GRADIENT INTERVAL = -.5,00/ 5.00

WACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.252	-10.000	-1.39600	.30410	-.02870	.02010	-.00720	.04350	.03450
1.252	-8.000	-.29650	.23530	-.02730	.01990	-.00740	.04150	.03910
1.252	-6.000	-.20990	.18990	-.02610	.01940	-.00770	.04130	.03990
1.252	-4.000	-.12630	.10750	-.02340	.01790	-.00770	.04190	.04030
1.252	-2.000	-.03710	.04340	-.02350	.01640	-.00720	.04350	.03970
1.252	.000	.03200	-.02370	-.02150	.01520	-.00630	.04510	.03990
1.252	2.000	.13690	-.03420	-.02160	.01570	-.00590	.04450	.03980
1.252	4.000	.21440	-.13920	-.02270	.01710	-.00610	.04260	.03950
1.252	6.000	.30120	-.20150	-.02320	.01790	-.00600	.07930	.03950
1.252	8.000	.36820	-.24770	-.02390	.01940	-.00540	.07540	.03940
1.252	10.000	.40040	-.27230	-.02340	.01790	-.00540	.07070	.04040
	GRADIENT	.04276	-.03099	.00037	-.00012	.00023	.00011	-.00011

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (IASIF) (G3)/(T9)/(S3/2)/(S3/2)Y1E

(R83C46) (04 OCT 75)

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 104.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRDINC = -.500
 SPACER = 15.160 SPADIA = .200
 SPACAP = .000

RUN NO. 1214/ 0 RM/L = 6.86 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.254	-10.000	-.39930	.31020	-.02660	.01940	-.00680	.09820	.04020
1.254	-8.000	-.30350	.23760	-.02480	.01770	-.00630	.09550	.03920
1.254	-6.000	-.20430	.16390	-.02360	.01690	-.00660	.09610	.03990
1.254	-4.000	-.11240	.09650	-.02290	.01640	-.00690	.09770	.03940
1.254	-2.000	-.02610	.03400	-.02160	.01590	-.00640	.09910	.03900
1.254	.000	.06820	-.03430	-.02110	.01550	-.00590	.09990	.03920
1.254	2.000	.15600	-.09750	-.02210	.01610	-.00600	.09750	.03990
1.254	4.000	.23300	-.15090	-.02230	.01670	-.00610	.09530	.03920
1.254	6.000	.31940	-.21280	-.02490	.01910	-.00690	.09350	.03990
1.254	8.000	.40350	-.27230	-.02630	.02060	-.00690	.09040	.04170
1.254	10.000	.45700	-.30940	-.02630	.02060	-.00740	.07600	.04260
GRADIENT		.04364	-.03130	.00000	.00004	.00009	-.00032	.00012

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFLC = 104.000
DELTAZ = .290 RUDDER = .000
X-SRB = .000 CPDINC = 1.500
SPACER = 17.160 GRADIA = .200
SPAGAP = .050

RUN NO. 1215/ D RVL = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAT	CAB
1.248	-10.000	-.26860	.21240	-.02830	.02090	-.00790	.07970	.04220
1.248	-8.000	-.17540	.14370	-.02690	.01990	-.00800	.04330	.04010
1.248	-6.000	-.06330	.07710	-.02550	.01990	-.00800	.04330	.04010
1.248	-4.000	.00340	.01470	-.02390	.01770	-.00740	.04220	.04020
1.248	-2.000	.08980	-.04740	-.02340	.01740	-.00720	.04350	.04020
1.248	.000	.17950	-.11100	-.02340	.01750	-.00700	.04120	.04010
1.248	2.000	.26350	-.17170	-.02590	.01950	-.00740	.04350	.04290
1.248	4.000	.33930	-.22340	-.02790	.02170	-.00820	.04350	.04430
1.248	6.000	.41970	-.27920	-.03150	.02590	-.00940	.04350	.04470
1.248	8.000	.49900	-.32620	-.03230	.02560	-.00790	.04350	.04590
1.248	10.000	.55050	-.36930	-.03040	.02390	-.00790	.04440	.04590
1.248	GRADIENT	.04227	-.03002	-.00052	.00051	-.00009	.00024	.00031

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TABULATED SOURCE DATA - NSFC 570

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MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2) Y1E

(R83049) (04 OCT 73)

REFERENCE DATA

SREF = 8.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 104.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = 15.160 SPADIA = .200
 SPAGAP = .050

RUN NO. 1216/ 0 RM/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.32890	.25720	-.02630	.01910	-.00700	.04160	.04170
1.251	-8.000	-.23360	.19600	-.02500	.01790	-.00700	.04300	.04100
1.251	-6.000	-.13840	.11630	-.02410	.01730	-.00720	.04650	.04050
1.251	-4.000	-.05130	.05310	-.02290	.01670	-.00700	.04940	.04000
1.251	-2.000	.03690	-.01050	-.02190	.01600	-.00650	.09130	.03970
1.251	.000	.12930	-.07640	-.02200	.01600	-.00630	.09180	.03990
1.251	2.000	.21240	-.13640	-.02230	.01690	-.00620	.09120	.04050
1.251	4.000	.29870	-.19940	-.02330	.01930	-.00710	.04990	.04140
1.251	6.000	.37200	-.24850	-.02910	.02290	-.00810	.04940	.04270
1.251	8.000	.44390	-.29820	-.03100	.02430	-.00890	.04730	.04330
1.251	10.000	.50510	-.34090	-.02970	.02340	-.00790	.04490	.04500
GRADIENT		.04277	-.03054	-.00027	.00030	.00001	.00000	.00014

MSFC 370 (1A31F) (03)/(19)/(13/2)/(13/21Y1E

(R83049) (04 OCT 73)

REFERENCE DATA

SREF = 6.1900 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COEFIC = 104.000
DELTAZ = .140 RUDDER = .000
X-SF9 = .000 CRBINC = .000
SPACER = 9.100 SPADIA = .200
SPAGAP = .050

RUN NO. 1210/ D RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.256	-10.000	.12360	-.09790	.21830	-.13190	.09230	.07890	.04240
1.256	-9.000	.12270	-.09240	.16930	-.10430	.06620	.06340	.04100
1.256	-8.000	.12320	-.07990	.12370	-.07770	.05050	.06550	.04030
1.256	-4.000	.12560	-.07740	.07990	-.04930	.03390	.06440	.03830
1.256	-2.000	.13030	-.07920	.03460	-.02060	.01620	.09060	.03500
1.256	.000	.12690	-.07340	-.00950	.00940	-.00120	.09060	.03450
1.256	2.000	.13040	-.07900	-.03400	.03400	-.01990	.06990	.03400
1.256	4.000	.12570	-.07770	-.10160	.07020	-.03750	.06990	.04230
1.256	6.000	.12740	-.09190	-.14750	.09960	-.05490	.06500	.04430
1.256	8.000	.12450	-.09370	-.19330	.12640	-.07030	.06390	.04330
1.256	10.000	.12770	-.09170	-.24250	.13390	-.08350	.07970	.04640
1.256	GRADIENT	.00001	-.00007	-.02249	.01490	-.00995	.00000	.00053

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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2) Y1EG

(R83030) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COMF10 = 103.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .300
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .030

RUN NO. 1220/ 0 RNL = 6.66 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.32140	.25500	-.02720	.01940	-.00710	.04050	.04050
1.250	-8.000	-.23070	.16630	-.02560	.01820	-.00730	.04020	.04020
1.250	-6.000	-.14180	.12040	-.02430	.01740	-.00730	.04010	.04010
1.250	-4.000	-.05790	.05870	-.02270	.01620	-.00690	.03990	.03990
1.250	-2.000	.03000	-.00390	-.02210	.01590	-.00670	.03970	.03970
1.250	.000	.12280	-.07310	-.02200	.01590	-.00640	.03930	.03930
1.250	2.000	.20670	-.13340	-.02240	.01650	-.00600	.04020	.04020
1.250	4.000	.29350	-.18670	-.02480	.01900	-.00660	.04170	.04170
1.250	6.000	.36320	-.24310	-.02830	.02210	-.00710	.04470	.04470
1.250	8.000	.41920	-.29090	-.02930	.02290	-.00760	.04130	.04130
1.250	10.000	.45940	-.30960	-.02930	.02320	-.00750	.03820	.03820
1.250	GRADIENT	.04297	-.03092	-.00022	.00032	.00006	.00004	.00020

(083051) (04 OCT 73)

MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2) X3E

REFERENCE DATA

8REF = 6.1900 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 100.000
DELTAZ = .140 RUDDER = .000
X-SIB = .000 CPBINC = .500
SPACER = .100 SPADIA = .200
SPAGAP = .050

RUN NO. 1209/ 0 RNL = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.252	-10.000	-.30020	.24240	-.00990	.00420	-.00190	.07930	.03870
1.252	-8.000	-.20740	.17230	-.00950	.00410	-.00190	.07990	.03410
1.252	-6.000	-.11810	.10620	-.01000	.00430	-.00200	.09260	.03770
1.252	-4.000	-.03230	.04310	-.00970	.00420	-.00160	.09390	.03710
1.252	-2.000	.03520	-.02140	-.00990	.00410	-.00130	.09490	.03710
1.252	.000	.14400	-.09590	-.01040	.00430	-.00130	.09910	.03730
1.252	2.000	.22670	-.14510	-.01070	.00470	-.00120	.09970	.03420
1.252	4.000	.30390	-.19790	-.01240	.01020	-.00130	.09460	.03840
1.252	6.000	.39270	-.26090	-.01410	.01110	-.00120	.09740	.03990
1.252	8.000	.44750	-.29670	-.01530	.01220	-.00140	.09450	.03950
1.252	10.000	.49210	-.32770	-.01620	.01290	-.00150	.09230	.04090
GRADIENT		.04219	-.03020	-.00031	.00023	.00003	.00029	.00029

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F)(03)/(T9)/(S3/2)/(S3/2)Y10

(R83052) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 109.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRDINC = .500
 SPACER = 21.220 SPADIA = .200
 SPAGAP = .050

RUN NO. 1207/ 2 RNL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.31830	.25370	-.01030	.00820	-.00220	.01770	.03800
1.251	-8.000	-.22620	.18430	-.01010	.00930	-.00210	.01670	.03790
1.251	-6.000	-.13910	.11960	-.01030	.00870	-.00220	.01120	.03780
1.251	-4.000	-.05560	.05800	-.01010	.00940	-.00180	.01420	.03730
1.251	-2.000	.03190	-.00610	-.00960	.00810	-.00140	.01650	.03770
1.251	.000	.12410	-.07300	-.01040	.00970	-.00140	.01400	.03730
1.251	2.000	.20890	-.13370	-.01110	.00910	-.00130	.01760	.03790
1.251	4.000	.28870	-.19910	-.01170	.00970	-.00130	.01650	.03800
1.251	6.000	.36760	-.24450	-.01420	.01170	-.00120	.01610	.03850
1.251	8.000	.41860	-.27830	-.01470	.01210	-.00140	.01120	.03890
1.251	10.000	.46360	-.31000	-.01340	.01120	-.00090	.01750	.03920
	GRADIENT	.04328	-.03109	-.00024	.00019	.00003	.00028	.00003

MSFC 370 (IA31F) (03)/(T9)/(S3/2)/(S3/2)Y20

(R03033) (04 OCT 73)

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 110.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CRGTHC = .500
SPACER = 21.000 SPADIA = .200
SPAGAP = .050

RUN NO. 1206/ 0 RM/L = 6.61 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.34940	.27170	-.00930	.00170	-.00190	.08160	.03940
1.246	-9.000	-.25320	.20320	-.01010	.00930	-.00210	.09670	.03950
1.246	-8.000	-.15830	.13260	-.01030	.00970	-.00220	.09910	.03790
1.246	-4.000	-.06640	.06440	-.01040	.00970	-.00190	.09210	.03720
1.246	-2.000	.02900	-.00390	-.00990	.00930	-.00130	.09470	.03730
1.246	.000	.12860	-.07760	-.01040	.00970	-.00140	.09600	.03700
1.246	2.000	.21330	-.13920	-.01170	.00990	-.00130	.09390	.03740
1.246	4.000	.29810	-.18940	-.01420	.01190	-.00190	.09310	.03960
1.246	6.000	.36690	-.24490	-.01590	.01300	-.00190	.09430	.04020
1.246	8.000	.42240	-.28140	-.01690	.01340	-.00190	.09050	.04000
1.246	10.000	.47100	-.31570	-.01690	.01360	-.00180	.08900	.04100
GRADIENT		.04467	-.03199	-.00047	.00039	.00001	.00035	.00016

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (C3) / (T9) / (S3/2) / (S3/2)Y30

(R3034) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 112.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .220 SPADIA = .200
 SPACAP = .050

RUN NO. 1208/ 0 RIN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.30130	.24280	-.01060	.00880	-.00230	.08030	.03820
1.251	-8.000	-.20900	.17300	-.01040	.00950	-.00220	.08110	.03940
1.251	-6.000	-.11970	.10700	-.01030	.00850	-.00200	.08360	.03830
1.251	-4.000	-.03410	.04470	-.00980	.00810	-.00180	.08730	.03720
1.251	-2.000	.05340	-.01970	-.00930	.00790	-.00130	.09020	.03760
1.251	.000	.13950	-.08290	-.01110	.00910	-.00170	.09120	.03800
1.251	2.000	.22260	-.14240	-.01210	.00990	-.00170	.09090	.03880
1.251	4.000	.30270	-.19780	-.01270	.01020	-.00180	.09080	.03980
1.251	6.000	.38480	-.25480	-.01450	.01150	-.00190	.08990	.03950
1.251	8.000	.44100	-.29170	-.01610	.01270	-.00170	.08680	.03960
1.251	10.000	.48950	-.32440	-.01610	.01260	-.00180	.08460	.04120
	GRADIENT	.04214	-.03038	-.00042	.00031	-.00004	.00039	.00022

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 106.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CPBINC = .000
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 1203/0 RML = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	COL	CAF	CAB
1.239	-10.000	-1.18700	.15390	-.01250	.01060	-.00320	.09120	.04130
1.239	-9.000	-.09690	.09810	-.01310	.01130	-.00320	.09210	.04060
1.239	-8.000	-.01210	.02710	-.01390	.01190	-.00340	.09370	.04030
1.239	-4.000	.07180	-.03350	-.01410	.01210	-.00340	.09550	.04090
1.239	-2.000	.15340	-.09330	-.01450	.01240	-.00340	.09710	.04060
1.239	.000	.23870	-.15460	-.01390	.01200	-.00300	.09630	.04060
1.239	2.000	.31710	-.21150	-.01590	.01330	-.00310	.09400	.04200
1.239	4.000	.38890	-.26330	-.01690	.01400	-.00300	.09150	.04290
1.239	6.000	.45690	-.30970	-.01730	.01490	-.00220	.08990	.04360
1.239	8.000	.50320	-.33950	-.01790	.01420	-.00230	.08890	.04340
1.239	10.000	.54600	-.36970	-.01750	.01350	-.00170	.08890	.04370
GRADIENT		.03991	-.02499	-.00034	.00023	.00005	-.00055	.00027

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TABULATED SOURCE DATA - WSFC 570

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WSFC 570(1131F)(G3)/(T9)/(S3/2)/(S3/2)Y2E

(1183058) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COEF10 = 107.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = 9.000 SPADIA = .200
 SPAGAP = .000

RUN NO. 1204/ 0 RVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.19090	.15330	-.01220	.01040	-.00300	.08920	.04080
1.245	-8.000	-.10240	.09030	-.01250	.01070	-.00320	.09040	.03940
1.245	-6.000	-.01450	.02670	-.01380	.01190	-.00340	.09360	.03960
1.245	-4.000	.07240	-.03590	-.01440	.01240	-.00350	.09550	.04040
1.245	-2.000	.15430	-.09340	-.01450	.01230	-.00330	.09640	.04010
1.245	.000	.23720	-.15330	-.01460	.01230	-.00310	.09570	.03990
1.245	2.000	.31610	-.21200	-.01340	.01240	-.00310	.09340	.04050
1.245	4.000	.39970	-.26480	-.01730	.01430	-.00300	.09070	.04200
1.245	6.000	.45910	-.31230	-.01790	.01460	-.00250	.08990	.04160
1.245	8.000	.50650	-.34270	-.01830	.01470	-.00250	.08640	.04120
1.245	10.000	.54610	-.36990	-.01960	.01470	-.00250	.08420	.04130
GRADIENT		.03982	-.02872	-.00033	.00021	.00006	-.00061	.00014

(R83057) (04 OCT 73)

MSFC 570 (1A31F) (03)/(T9) (03)/(S3/2)/(S3/2)Y20

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 CRAFTG = 111.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = 21.000 SPADIA = .200
SPAGAP = .050

PARAMETRIC DATA

RUN NO. 1203/ 1 RIVL = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.245	-10.000	-19090	.15560	-.01270	.01060	-.00370	.09570	.03940
1.245	-6.000	-.09930	.09930	-.01300	.01090	-.00360	.09670	.03910
1.245	-6.000	-.01260	.02560	-.01400	.01190	-.00350	.09930	.03920
1.245	-4.000	.07030	-.03490	-.01450	.01240	-.00360	.10150	.03950
1.245	-2.000	.15230	-.09360	-.01440	.01210	-.00340	.10320	.03920
1.245	.000	.23350	-.15370	-.01450	.01220	-.00320	.10250	.03920
1.245	2.000	.31490	-.21100	-.01530	.01270	-.00310	.10110	.03950
1.245	4.000	.38690	-.26270	-.01740	.01440	-.00330	.09790	.04190
1.245	6.000	.44980	-.30430	-.01930	.01520	-.00200	.09390	.04130
1.245	8.000	.49390	-.33300	-.01740	.01420	-.00320	.09210	.04090
1.245	10.000	.52750	-.35600	-.01740	.01400	-.00290	.09420	.04010
	GRADIENT	.03979	-.02966	-.00032	.00023	.00004	-.00047	.00025

MSFC 570 (1A31F) (03)/(T9) (03)/(S3/2)/(S3/2)

(R83558) (19 JAN 74)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CRAFTG = 100.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1257/ 0 RIVL = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.897	.000	.06890	-.03340	-.00910	.00690	.00100	.03510	.02430
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1256/ 0 RIVL = 5.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.246	.000	.17050	-.09820	-.00340	.00390	.00110	.09230	.02610
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



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TABULATED SOURCE DATA - NSFC 370

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MSFC 370 (1A31F) (03)/(T9)/(S3/2)/(S3/2) G

(R03061) (14 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 126.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTNC = .990
 SPACER = .000 SPADIA = .990
 SPACAP = .000

RUN NO. 1261/ 0 R/V/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.32330	.22940	-.02220	.01390	-.00210	.01050	.03300
.598	-8.000	-.25130	.17960	-.02210	.01410	-.00200	.01590	.03260
.598	-6.000	-.19960	.13720	-.02120	.01410	-.00150	.02000	.03290
.598	-4.000	-.12340	.09350	-.02060	.01390	-.00160	.02290	.03350
.598	-2.000	-.05690	.04860	-.02010	.01360	-.00270	.02460	.03300
.598	.000	.01710	-.00230	-.02170	.01490	-.00290	.02390	.03290
.598	2.000	.09880	-.05890	-.02320	.01650	-.00210	.02210	.03290
.598	4.000	.18220	-.11590	-.02200	.01590	-.00220	.02110	.03230
.598	6.000	.26230	-.17240	-.02210	.01600	-.00160	.01290	.03290
.598	8.000	.36920	-.24720	-.02390	.01710	-.00210	.00790	.03290
.598	10.000	.42300	-.28600	-.02520	.01870	-.00250	.01170	.03310
GRADIENT		.03834	-.02631	-.00030	.00034	-.00003	-.00030	-.00015

RUN NO. 1280/ 0 R/V/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.000	-.31770	.22960	-.02590	.01660	-.00360	.01730	.03350
.802	-8.000	-.24320	.17690	-.02690	.01760	-.00400	.02100	.03330
.802	-6.000	-.17320	.12860	-.02670	.01810	-.00400	.02420	.03370
.802	-4.000	-.10380	.08180	-.02520	.01730	-.00390	.02690	.03350
.802	-2.000	-.03410	.03390	-.02490	.01700	-.00390	.02990	.03310
.802	.000	.04440	-.01960	-.02490	.01740	-.00350	.02770	.03290
.802	2.000	.13250	-.07950	-.02360	.01690	-.00290	.02700	.03110
.802	4.000	.21340	-.13650	-.02320	.01790	-.00310	.02310	.03290
.802	6.000	.29160	-.18960	-.02280	.01630	-.00250	.02490	.03090
.802	8.000	.36550	-.24110	-.02290	.01620	-.00300	.02440	.03210
.802	10.000	.43550	-.28930	-.02340	.01690	-.00260	.02590	.03190
GRADIENT		.04005	-.02750	.00006	.00004	.00012	-.00047	-.00017

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .900 CGNFTG = 126.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1279/ 0 RN/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.30970	.22790	-.02770	.01930	-.00480	.02710	.03660
.901	-8.000	-.22560	.16910	-.02970	.02010	-.00540	.03100	.03540
.901	-6.000	-.13180	.11760	-.02740	.01910	-.00510	.03490	.03510
.901	-4.000	-.08010	.06780	-.02690	.01930	-.00520	.03710	.03510
.901	-2.000	-.00510	.01620	-.02550	.01890	-.00460	.03490	.03490
.901	.000	.07160	-.03600	-.02450	.01940	-.00430	.03960	.03390
.901	2.000	.14100	-.09410	-.02390	.01770	-.00390	.03630	.03360
.901	4.000	.21740	-.13560	-.02320	.01720	-.00300	.03620	.03260
.901	6.000	.28870	-.18430	-.02200	.01620	-.00280	.03480	.03290
.901	8.000	.37380	-.24230	-.02100	.01550	-.00310	.03680	.03140
.901	10.000	.43480	-.28490	-.02070	.01570	-.00330	.03490	.03290
GRADIENT		.03705	-.02635	.00045	-.00027	.00025	-.00020	-.00031

RUN NO. 1277/ 0 RN/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-.33750	.26340	-.02330	.01610	-.00390	.06350	.03430
1.051	-8.000	-.23660	.19060	-.02550	.01930	-.00440	.06530	.03370
1.051	-6.000	-.14720	.12610	-.02530	.01890	-.00460	.07130	.03370
1.051	-4.000	-.06130	.05440	-.02340	.01770	-.00460	.07490	.03330
1.051	-2.000	.02540	.00170	-.02220	.01690	-.00480	.07610	.03340
1.051	.000	.11720	-.06400	-.02030	.01540	-.00440	.07430	.03230
1.051	2.000	.20160	-.12380	-.01990	.01520	-.00470	.06980	.02940
1.051	4.000	.25790	-.15750	-.02090	.01520	-.00450	.06550	.02610
1.051	6.000	.32910	-.20440	-.02070	.01560	-.00450	.06570	.02530
1.051	8.000	.39460	-.24790	-.01970	.01490	-.00410	.06500	.02490
1.051	10.000	.45260	-.28830	-.01930	.01470	-.00350	.06490	.02490
GRADIENT		.04072	-.02846	.00046	-.00033	.00002	-.00125	-.00092

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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (G3)/(T9)/(S3/2)/(S3/2) G

(R03081) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BRREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 126.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1278/ 0 RV/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.252	-10.000	-.32880	.26630	-.02290	.01590	-.00360	.09130	.04230
1.252	-8.000	-.23220	.19310	-.02200	.01510	-.00360	.09320	.04110
1.252	-6.000	-.13660	.12170	-.02150	.01510	-.00350	.09650	.04070
1.252	-4.000	-.04630	.03440	-.02090	.01500	-.00320	.09990	.04100
1.252	-2.000	.04750	-.01490	-.01980	.01430	-.00300	.09050	.04100
1.252	.000	.14360	-.08470	-.01970	.01390	-.00490	.09160	.04090
1.252	2.000	.23230	-.14830	-.01740	.01290	-.00460	.09020	.04160
1.252	4.000	.31380	-.20450	-.01800	.01350	-.00480	.08910	.04210
1.252	6.000	.39770	-.26400	-.02040	.01560	-.00540	.08630	.04430
1.252	8.000	.46230	-.30600	-.02110	.01650	-.00590	.08460	.04320
1.252	10.000	.50350	-.33390	-.02040	.01590	-.00560	.08310	.04410
GRADIENT		.04523	-.03256	.00040	-.00022	.00006	.00001	.00014

RUN NO. 1161/ 0 RV/L = 7.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	.05970	-.04070	.17590	-.10700	.03490	.09020	.01150
GRADIENT		-.00587	.00407	-.01759	.01070	-.00349	-.00902	-.00115

(193562) (14 SEP 73)

MSFC 570(1A31F)(03)/(T8)/(S3/2)/(S3/2) G

REFERENCE DATA

BREF = 6.1980 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

ALPHA = .000
 DELTAZ = .140
 X-SB = .000
 SPACER = .000
 SPACAP = .000

PARAMETRIC DATA

RUN NO. 1273/ 0 RVL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
.599	-10.000	.03700	-.02830	.19980	-.11750	.05970	.01440	.03150
.599	-8.000	.03990	-.02740	.15160	-.09610	.04910	.01910	.03050
.599	-5.000	.04690	-.02910	.11300	-.07190	.03710	.02170	.02930
.599	-4.000	.04630	-.02360	.07190	-.04580	.02460	.02590	.02850
.599	-2.000	.04370	-.01990	.02970	-.01930	.01210	.02760	.02870
.599	.000	.04150	-.01690	-.01160	.00970	-.00050	.02690	.02990
.599	2.000	.04390	-.02110	-.03380	.03600	-.01360	.02540	.03100
.599	4.000	.04900	-.02770	-.09230	.06100	-.02320	.02290	.03170
.599	6.000	.04390	-.02720	-.13400	.09790	-.03930	.02020	.03240
.599	8.000	.04750	-.03350	-.17360	.11270	-.03060	.01730	.03330
.599	10.000	.04770	-.03780	-.21370	.13730	-.08230	.01100	.03670
GRADIENT		.00026	-.00047	-.02061	.01339	-.00625	-.00041	.00044

RUN NO. 1274/ 0 RVL = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
.803	-10.000	.05340	-.03920	.20010	-.12390	.06410	.02070	.02950
.803	-8.000	.05920	-.03690	.15950	-.10200	.05230	.02460	.02730
.803	-6.000	.06290	-.03610	.11950	-.07730	.04040	.02710	.02650
.803	-4.000	.06710	-.03590	.07480	-.04900	.02630	.03030	.02600
.803	-2.000	.06740	-.03370	.03030	-.01990	.01230	.03200	.02570
.803	.000	.06840	-.03330	-.01320	.00990	-.00050	.03220	.02590
.803	2.000	.06990	-.03610	-.05430	.03630	-.01370	.03020	.02730
.803	4.000	.07160	-.04030	-.09640	.06400	-.02530	.02920	.02940
.803	6.000	.06730	-.04030	-.14000	.09260	-.04090	.02530	.03010
.803	8.000	.06300	-.04170	-.17830	.11660	-.05240	.02250	.03170
.803	10.000	.06220	-.04380	-.22190	.14300	-.06550	.01950	.03360
GRADIENT		.00058	-.00037	-.02136	.01396	-.00553	-.00033	.00032

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03)/(19)/(53/2)/(53/2) G

(R83062) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 126.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1275/ 0 RN/L = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.06450	-.04180	.20400	-.12700	.06430	.02830	.02360
.900	-8.000	.07180	-.04300	.16460	-.10480	.03290	.03190	.02240
.900	-6.000	.07840	-.04430	.12320	-.07990	.04030	.03390	.02140
.900	-4.000	.08710	-.04740	.07860	-.05070	.02630	.03730	.02010
.900	-2.000	.09050	-.04760	.03410	-.02150	.01230	.03900	.02050
.900	.000	.09200	-.04820	-.01020	.00780	-.00040	.03740	.02150
.900	2.000	.09800	-.05360	-.03660	.03940	-.01360	.03930	.02020
.900	4.000	.09620	-.05560	-.03960	.06690	-.02750	.03440	.02270
.900	6.000	.09940	-.05320	-.14190	.09410	-.04170	.03440	.02240
.900	8.000	.09020	-.04930	-.19100	.11790	-.03350	.03030	.02460
.900	10.000	.07260	-.04780	-.22180	.14200	-.06570	.02930	.02700
	GRADIENT	.00129	-.00112	-.02235	.01474	-.00669	-.00029	.00024

RUN NO. 1276/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	.09360	-.05570	.23180	-.14900	.07730	.06490	.03690
1.050	-8.000	.10660	-.06100	.18320	-.11990	.06230	.06790	.03420
1.050	-6.000	.12120	-.06970	.13220	-.09710	.04730	.07300	.03430
1.050	-4.000	.12990	-.07440	.08110	-.05240	.03040	.07310	.03470
1.050	-2.000	.13610	-.07790	.03310	-.02120	.01410	.07310	.03310
1.050	.000	.14000	-.08030	-.00690	.00390	-.00100	.07470	.03240
1.050	2.000	.14000	-.08080	-.05000	.03370	-.01590	.07390	.03240
1.050	4.000	.13360	-.07720	-.09760	.06650	-.03290	.07220	.03490
1.050	6.000	.12040	-.06860	-.14740	.09930	-.04890	.06910	.03390
1.050	8.000	.10780	-.06090	-.19640	.13060	-.06420	.06760	.03770
1.050	10.000	.09670	-.05630	-.24330	.15750	-.07760	.06170	.03950
	GRADIENT	.00037	-.00042	-.02212	.01458	-.00793	-.00035	-.00002

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF1G = 126.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 1272/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	.16350	-.10330	.19980	-.12230	.07310	.09000	.03090
1.253	-8.000	.17090	-.10400	.15320	-.09700	.06000	.09430	.02910
1.253	-6.000	.17120	-.10010	.11370	-.07260	.04360	.09670	.02690
1.253	-4.000	.17350	-.09990	.06940	-.04350	.02990	.09970	.02590
1.253	-2.000	.17890	-.10220	.02830	-.01640	.01290	.09970	.02660
1.253	.000	.18150	-.10320	-.01230	.01040	-.00300	.10100	.02320
1.253	2.000	.18310	-.10490	-.03210	.03660	-.01930	.10020	.02320
1.253	4.000	.18020	-.10430	-.09390	.06460	-.03450	.09720	.02730
1.253	6.000	.17710	-.10370	-.13560	.09070	-.05020	.09690	.02990
1.253	8.000	.17690	-.10990	-.17690	.11460	-.06390	.09370	.03140
1.253	10.000	.17910	-.11450	-.22010	.13910	-.07820	.09000	.03290
GRADIENT		.00098	-.00059	-.02035	.01346	-.00789	-.00013	.00007

RUN NO. 1283/ 0 RN/L = 4.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.02570	-.01160	.18030	-.10830	.05530	.09210	.01290
3.480	-8.000	.01450	-.00230	.14040	-.08450	.04330	.09090	.01250
3.480	-6.000	.00690	.00330	.10340	-.06240	.03200	.09040	.01230
3.480	-4.000	.00600	.00910	.06790	-.04970	.02110	.07990	.01240
3.480	-2.000	.00710	.00870	.03290	-.01910	.01040	.07850	.01170
3.480	.000	.00710	.00960	-.00120	.00210	.00000	.07930	.01170
3.480	2.000	.00860	.00690	-.03700	.02410	-.01120	.07700	.01730
3.480	4.000	.00810	.07890	.01370	-.00330	.00690	.41560	-.43020
3.480	6.000	.07660	.09330	.00240	-.00240	.00010	.41990	-.42670
3.480	8.000	.09040	.06340	.00240	-.00170	.00070	.42050	-.42670
3.480	10.000	.13940	.05500	.01370	-.00320	.00970	.42050	-.43020
GRADIENT		.00929	.00699	-.00990	.00370	-.00250	.03351	-.04399



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (03)/(79)/(53/2)/(53/2) Y1E

(R03070) (04 OCT 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = .300
 SPACER = 9.100 SPADTA = .200
 SPACAP = .030

RUN NO. 1267/ 0 RV/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	-.31980	.23380	-.00160	.00130	.00190	.02710	.01850
.898	-8.000	-.24430	.17950	-.00410	.00360	.00150	.02930	.01860
.898	-6.000	-.17470	.13020	-.00620	.00340	.00140	.03080	.01930
.898	-4.000	-.11010	.08610	-.00690	.00630	.00160	.03200	.02000
.898	-2.000	-.03900	.03470	-.00790	.00730	.00160	.03600	.01970
.898	.000	.04270	-.01760	-.00820	.00730	.00130	.03550	.01970
.898	2.000	.12510	-.07480	-.00940	.00610	.00100	.03280	.02070
.898	4.000	.21730	-.13430	-.00980	.00610	.00050	.03320	.01940
.898	6.000	.29480	-.19140	-.01280	.01050	.00000	.03170	.01960
.898	8.000	.37210	-.24390	-.01410	.01130	.00000	.03400	.01960
.898	10.000	.44120	-.29160	-.01580	.01270	-.00020	.03630	.02000
GRADIENT	.04094	-.02811	-.00036	.00022	-.00014	-.00024	-.00001	-.00001

RUN NO. 1268/ 0 RV/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.33030	.25720	-.00310	.00320	.00160	.06160	.02940
1.049	-8.000	-.23940	.19010	-.00490	.00390	.00150	.06390	.03040
1.049	-6.000	-.15710	.13950	-.00500	.00330	.00160	.07010	.03040
1.049	-4.000	-.07540	.07080	-.00480	.00320	.00130	.07260	.03020
1.049	-2.000	.01800	.00180	-.00480	.00300	.00130	.07250	.03090
1.049	.000	.10670	-.06140	-.00490	.00310	.00130	.07240	.03120
1.049	2.000	.18900	-.11880	-.00500	.00300	.00130	.06930	.02970
1.049	4.000	.25610	-.16130	-.00520	.00300	.00100	.06500	.02690
1.049	6.000	.32280	-.20340	-.00750	.00670	.00010	.06230	.02450
1.049	8.000	.38360	-.24590	-.00870	.00730	.00040	.06110	.02420
1.049	10.000	.43980	-.28440	-.01040	.00850	.00070	.06190	.02490
GRADIENT	.04170	-.02924	-.00003	-.00002	-.00003	-.00002	-.00002	-.00002

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SR9 = .000 ORBITIC = .000
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .030

RUN NO. 1266/ 0 RV/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.246	-10.000	-20.460	.23380	-.00140	.00220	.00110	.00710	.02400
1.246	-8.000	-.19990	.17130	-.00200	.00230	.00090	.00930	.02360
1.246	-6.000	-.11720	.11100	-.00280	.00330	.00090	.00130	.02370
1.246	-4.000	-.03160	.04900	-.00300	.00340	.00110	.00420	.02390
1.246	-2.000	.00950	-.01730	-.00390	.00410	.00100	.00430	.02370
1.246	.000	.13300	-.08550	-.00450	.00480	.00090	.00960	.02300
1.246	2.000	.24340	-.14930	-.00590	.00530	.00030	.00190	.02290
1.246	4.000	.32580	-.20580	-.00660	.00630	.00090	.00990	.02290
1.246	6.000	.38260	-.24190	-.00730	.00670	.00010	.00650	.02270
1.246	8.000	.45350	-.29270	-.00650	.00590	.00030	.00340	.02310
1.246	10.000	.50380	-.32780	-.00750	.00650	.00030	.00350	.02440
	GRADIENT	.04493	-.03209	-.00045	.00036	-.00007	-.00056	-.00013

MSFC 570 (1A31F) (031)/(T9)/(S3/2)/(S3/2) Y1E

(R03071) (04 OCT 73)

REFERENCE DATA

SREF = 8.1980 80. IN XMRP = 8.5490 IN.
 LREF = 8.3130 IN. YMRP = .0000 IN.
 BREF = 8.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 184.000
 DELTA2 = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = 9.100 SPADIA = .200
 SPACAP = .030

RUN NO. 1271/ 0 RIVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	.07820	-.03230	.21070	-.13070	.06710	.02760	.02310
.901	-8.000	.08000	-.03080	.17010	-.10820	.05370	.02910	.02230
.901	-6.000	.06140	-.04870	.12530	-.09030	.04230	.03180	.02110
.901	-4.000	.08080	-.04550	.07890	-.04990	.02770	.03300	.02090
.901	-2.000	.07290	-.03730	.03490	-.02160	.01430	.03470	.01960
.901	.000	.07230	-.03690	-.01190	.00930	.00000	.03440	.01990
.901	2.000	.07330	-.03640	-.05510	.03750	-.01370	.03330	.02120
.901	4.000	.08550	-.03050	-.09980	.06690	-.02750	.03210	.02280
.901	6.000	.08990	-.05630	-.14760	.09980	-.04270	.03130	.02350
.901	8.000	.08320	-.03580	-.18730	.12310	-.05480	.02550	.02490
.901	10.000	.07770	-.03340	-.22430	.14250	-.06500	.02790	.02710
GRADIENT	.00049	.00055	-.00055	-.02237	.01463	-.00892	-.00016	.00028

RUN NO. 1269/ 0 RIVL = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	.11100	-.07130	.23420	-.14940	.07890	.06250	.03350
1.050	-8.000	.12100	-.07530	.18330	-.12030	.06410	.06720	.03440
1.050	-6.000	.13130	-.08150	.13590	-.08940	.04940	.06760	.03210
1.050	-4.000	.13750	-.08420	.08310	-.05550	.03370	.07070	.03170
1.050	-2.000	.13570	-.08090	.04090	-.02670	.01900	.07210	.03090
1.050	.000	.13310	-.07900	-.00820	.00510	.00000	.07090	.03090
1.050	2.000	.13840	-.08370	-.05420	.03770	-.01940	.07100	.03120
1.050	4.000	.13300	-.08060	-.10370	.07130	-.03350	.06940	.03330
1.050	6.000	.12640	-.07740	-.15300	.10380	-.05110	.06900	.03530
1.050	8.000	.11870	-.07440	-.20070	.13390	-.06540	.06490	.03370
1.050	10.000	.10560	-.07000	-.24740	.16060	-.07980	.06160	.03730
GRADIENT	-.00031	.00022	-.00022	-.02363	.01590	-.00872	-.00019	.00017

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF10 = 104.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 1270/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	.16770	-.10640	.20330	-.12400	.07710	.06990	.03010
1.250	-8.000	.16860	-.10250	.16010	-.10050	.06290	.09340	.02970
1.250	-6.000	.17160	-.10130	.11730	-.07510	.04900	.09610	.02710
1.250	-4.000	.16990	-.09740	.07410	-.04770	.03170	.09360	.02330
1.250	-2.000	.17020	-.09670	.03040	-.01820	.01440	.09560	.02410
1.250	.000	.16980	-.09550	-.01290	.01090	-.00290	.09490	.02390
1.250	2.000	.17490	-.09970	-.05610	.04020	-.01990	.09620	.02340
1.250	4.000	.17530	-.10140	-.09990	.06900	-.03690	.09340	.02310
1.250	6.000	.17540	-.10470	-.14200	.09640	-.05320	.09360	.02740
1.250	8.000	.17120	-.10540	-.18440	.12200	-.06770	.09150	.02990
1.250	10.000	.17290	-.11250	-.22630	.14420	-.08140	.08920	.03130
	GRADIENT	.00077	-.00055	-.02162	.01459	-.00557	.00001	-.00006

MSFC 570 (1A31F) (C3)/(T9)/(S3/2)/(S3/2) Y10

(R03072) (04 OCT 73)

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 109.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPAGAP = .050

RUN NO. 1256/ 0 RN/L = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.895	-10.000	-.331040	.22420	-.00850	.00600	.00030	.03030	.03450
.895	-8.000	-.23340	.16970	-.01110	.00930	-.00030	.03310	.03450
.895	-6.000	-.16370	.12120	-.01140	.00920	-.00020	.03550	.03490
.895	-4.000	-.09420	.07370	-.01210	.00980	-.00070	.03770	.03490
.895	-2.000	-.01830	.02130	-.01410	.01120	-.00130	.03970	.03480
.895	.000	.03990	-.03230	-.01240	.01030	-.00020	.04040	.03460
.895	2.000	.14070	-.08780	-.01240	.01030	-.00020	.03920	.03430
.895	4.000	.21770	-.14060	-.01400	.01160	-.00040	.03920	.03360
.895	6.000	.29230	-.19180	-.01580	.01260	-.00090	.03660	.03360
.895	8.000	.36560	-.24210	-.01720	.01370	-.00160	.03790	.03390
.895	10.000	.43890	-.29330	-.01870	.01500	-.00090	.03850	.03320
GRADIENT		.03914	-.02688	-.00010	.00014	.00009	.00002	-.00015

RUN NO. 1260/ 0 RN/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.33330	.25980	-.00290	.00270	.00150	.06870	.03460
1.047	-8.000	-.24080	.19040	-.00310	.00480	.00120	.07290	.03560
1.047	-6.000	-.15450	.12810	-.00560	.00560	.00120	.07730	.03600
1.047	-4.000	-.07100	.06720	-.00320	.00540	.00100	.07980	.03610
1.047	-2.000	.02140	-.00170	-.00370	.00540	.00070	.07920	.03620
1.047	.000	.11420	-.06850	-.00300	.00500	.00100	.07790	.03580
1.047	2.000	.19850	-.12800	-.00590	.00540	.00080	.07370	.03450
1.047	4.000	.25530	-.16270	-.00570	.00320	.00100	.06970	.03070
1.047	6.000	.32640	-.20940	-.00560	.00070	.00090	.06590	.02930
1.047	8.000	.39250	-.25360	-.00770	.00660	.00080	.06440	.02820
1.047	10.000	.45410	-.29550	-.00910	.00770	.00130	.06630	.02930
GRADIENT		.04148	-.02930	-.00006	-.00002	.00001	-.00129	-.00063

MSFC 370 (IA31F) (03) / (T9) / (S3/2) / (S3/2) Y10

(R83072) (04 OCT 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 109.000
DELTAZ = .140 RUDDER = .000
X-SFS = .000 CGBINC = .500
SPACER = 21.220 SPADIA = .200
SPAGAP = .050

RUN NO. 1259/ 0 RNVL = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.32060	.25360	-.00500	.00430	-.00030	.09000	.04390
1.249	-8.000	-.22460	.19310	-.00340	.00440	-.00030	.09090	.04360
1.249	-6.000	-.13190	.11400	-.00370	.00490	-.00040	.09290	.04410
1.249	-4.000	-.04500	.04960	-.00350	.00510	-.00020	.09490	.04320
1.249	-2.000	.04560	-.01690	-.00390	.00530	-.00020	.09670	.04370
1.249	.000	.13930	-.09410	-.00370	.00530	-.00020	.09900	.04390
1.249	2.000	.22640	-.14620	-.00670	.00640	-.00030	.09910	.04490
1.249	4.000	.30680	-.20150	-.00780	.00700	-.00030	.09690	.04320
1.249	6.000	.39380	-.26210	-.00980	.00830	-.00040	.09660	.04560
1.249	8.000	.45460	-.30250	-.01070	.00900	-.00030	.09330	.04620
1.249	10.000	.50890	-.34060	-.01030	.00970	-.00040	.09020	.04670
	GRADIENT	.04422	-.03157	-.00027	.00024	-.00004	.00027	-.00003

MSFC 570 (1A31F) (03) / (T9) / (S3/2) / (S3/2) Y10

(R83073) (04 OCT 73)

REFERENCE DATA

BRP = 9.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF10 = 109.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = .500
 SPACER = 21.220 SPADIA = .200
 SPAGAP = .050

RUN NO. 1262/ 0 RM/L = 6.16 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
.897	-10.000	.08030	-.05480	.21790	-.13390	.06870	.03370	.02620
.897	-8.000	.06730	-.05940	.17590	-.11090	.05660	.03060	.02520
.897	-6.000	.09360	-.06210	.13090	-.08260	.04230	.03000	.02440
.897	-4.000	.09240	-.05980	.09240	-.05110	.02710	.02820	.02390
.897	-2.000	.09100	-.05770	.03700	-.02190	.01420	.02320	.02370
.897	.000	.09000	-.05720	-.01040	.00970	.00020	.02130	.02390
.897	2.000	.09460	-.05170	-.05760	.04070	-.01390	.02040	.02440
.897	4.000	.10110	-.06860	-.10260	.06930	-.02790	.02090	.02550
.897	6.000	.10380	-.07100	-.15190	.10100	-.04330	.02740	.02710
.897	8.000	.09700	-.06940	-.19190	.12550	-.05630	.02510	.02820
.897	10.000	.08930	-.06430	-.22990	.14390	-.06690	.02730	.02950
GRADIENT		.00105	-.00109	-.02323	.01517	-.03690	-.00098	.00020

RUN NO. 1261/ 0 RM/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.049	-10.000	.11120	-.07510	.24480	-.15420	.08280	.06540	.03970
1.049	-8.000	.12080	-.09030	.19470	-.12470	.06790	.06530	.03740
1.049	-6.000	.13420	-.09210	.14300	-.09210	.05230	.03640	.03620
1.049	-4.000	.14480	-.10030	.09020	-.05700	.03590	.03210	.03600
1.049	-2.000	.14520	-.10010	.04290	-.02600	.01910	.03090	.03690
1.049	.000	.14380	-.09920	-.00670	.00740	.00010	.04760	.03540
1.049	2.000	.14940	-.10420	-.05310	.04020	-.01850	.04670	.03460
1.049	4.000	.14620	-.10200	-.10830	.07600	-.03590	.04790	.03570
1.049	6.000	.13710	-.09630	-.15810	.10910	-.05240	.04910	.03890
1.049	8.000	.12790	-.09050	-.20690	.13750	-.06760	.04910	.04030
1.049	10.000	.11650	-.08270	-.25460	.16370	-.08200	.05240	.04210
GRADIENT		.00035	-.00038	-.02475	.01661	-.00906	-.00063	-.00010

MSFC 570 (1A31F) (03) / (178) / (53/2) / (53/2) V10

(R03073) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
SREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 109.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRGINC = .530
SPACER = 21.220 SPADIA = .200
SPACAP = .050

RUN NO. 1203/ D RM/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	.18130	-.11460	.20930	-.12590	.07780	.10360	.03260
1.247	-9.000	.17920	-.10940	.16370	-.10350	.06490	.10390	.03210
1.247	-8.000	.18020	-.10690	.12180	-.07770	.04970	.10970	.03340
1.247	-4.000	.17950	-.10340	.07640	-.04970	.03170	.11050	.02890
1.247	-2.000	.17880	-.10060	.03290	-.02020	.01490	.10890	.02770
1.247	.000	.17910	-.10220	-.01250	.01010	-.00290	.10660	.02650
1.247	2.000	.17850	-.10420	-.03760	.04070	-.02020	.10240	.02640
1.247	4.000	.18310	-.10930	-.10130	.06930	-.03740	.10390	.02910
1.247	6.000	.18560	-.11400	-.14990	.09710	-.05400	.10240	.03120
1.247	8.000	.18840	-.11890	-.18790	.12180	-.05910	.09980	.03340
1.247	10.000	.19150	-.12530	-.23150	.14450	-.06220	.09940	.03320
1.247	GRADIENT	.00045	-.00079	-.02229	.01484	-.00466	-.00104	-.00005

MSFC 570(1A31F)(Q3)/(T9)/(S3/2)/(S3/2) Y2E

(R93074) (04 OCT 73)

REFERENCE DATA

SREP = 0.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF10 = 113.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .300
 SPACER = 9.000 SPADIA = .200
 SPAGAP = .050

RUN NO. 1265/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	Ct	CYN	CBL	CAF	CAB
1.249	-10.000	-.30030	.24430	.00110	.00000	.00180	.06670	.02400
1.249	-6.000	-.21160	.17880	.00060	.00090	.00160	.08900	.02340
1.249	-6.000	-.12360	.11430	-.00090	.00190	.00170	.09070	.02370
1.249	-4.000	-.03270	.04770	-.00210	.00300	.00150	.09220	.02400
1.249	-2.000	.06370	-.02200	-.00280	.00340	.00130	.09410	.02420
1.249	.000	.15910	-.09080	-.00330	.00380	.00090	.09480	.02290
1.249	2.000	.25080	-.15590	-.00420	.00430	.00090	.09270	.02240
1.249	4.000	.33310	-.21240	-.00540	.00540	.00120	.09110	.02240
1.249	6.000	.39260	-.25060	-.00610	.00570	.00040	.09740	.02270
1.249	8.000	.46510	-.30090	-.00590	.00520	.00030	.09610	.02200
1.249	10.000	.51790	-.33770	-.00730	.00630	.00020	.09430	.02350
1.249	GRADIENT	.04593	-.03270	-.00040	.00029	-.00003	-.00019	-.00025

(R03079) (04 OCT 73)

MSFC 370 (1A31F) (03) / (T11) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

BETA = .000
 DELTAZ = .140
 X-SRB = .000
 SPACER = .000
 SPAGAP = .000

CONFIC = 121.000
 RUDDER = .000
 ORGINC = .000
 SPADIA = .000

PARAMETRIC DATA

RUN NO. 1236/ 0 RN/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.31060	.22840	-.01000	.00690	.00030	.02450	.04030
.899	-8.000	-.22440	.16690	-.01190	.00940	-.00010	.02750	.03960
.899	-6.000	-.15150	.11610	-.01250	.00950	-.00010	.03040	.03930
.899	-4.000	-.06590	.07090	-.01200	.00960	-.00030	.03230	.03730
.899	-2.000	-.00600	.01460	-.01450	.01130	-.00130	.03390	.03790
.899	.000	.07250	-.03970	-.01290	.01060	-.00100	.03470	.03740
.899	2.000	.14390	-.08700	-.01350	.01100	-.00090	.03400	.03630
.899	4.000	.21850	-.13740	-.01400	.01130	-.00110	.03270	.03590
.899	6.000	.30350	-.19550	-.01620	.01290	-.00130	.03100	.03550
.899	8.000	.39120	-.24950	-.01750	.01390	-.00160	.03250	.03560
.899	10.000	.46120	-.30370	-.01990	.01470	-.00130	.03500	.03620
GRADIENT		.03792	-.02590	-.00015	.00016	-.00006	.00005	-.00022

RUN NO. 1239/ 0 RN/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.33410	.26910	-.01340	.01060	-.00190	.07730	.04540
1.249	-8.000	-.24150	.19720	-.00550	.00490	.00000	.07790	.04570
1.249	-6.000	-.14650	.12540	-.00520	.00450	.00010	.08010	.04610
1.249	-4.000	-.05360	.05620	-.00470	.00360	.00040	.08290	.04590
1.249	-2.000	.04010	-.01300	-.00630	.00530	-.00020	.08600	.04510
1.249	.000	.13790	-.08360	-.00760	.00670	-.00090	.08860	.04390
1.249	2.000	.23130	-.14980	-.00920	.00710	-.00100	.08890	.04350
1.249	4.000	.31490	-.20760	-.00940	.00900	-.00110	.08770	.04490
1.249	6.000	.39990	-.26670	-.01010	.00940	-.00050	.08870	.04500
1.249	8.000	.47390	-.31650	-.01250	.00990	.00090	.08760	.04440
1.249	10.000	.53720	-.35950	-.01040	.00900	-.00040	.08520	.04690
GRADIENT		.04641	-.03322	-.00057	.00053	-.00019	.00064	-.00017



MSFC 370(1A31F)(03)/(T11)/(S3/2)/(S3/2)

(R03079) (04 OCT 73)

REFERENCE DATA

3	YREF =	6.1980 SQ. IN	XRP =	2.5490 IN.
4	YREF =	3.330 IN.	YRP =	.0000 IN.
5	ZREF =	5.3130 IN.	ZRP =	.0000 IN.
6	SCALE =	.0940		

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	121.000
DELTAZ	=	.140	RUDDER	=	.000
X-SRB	=	.000	CASING	=	.500
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.000			

RUN NO. 1252/ 0 R/V/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.000	-10.000	-.04110	.04710	.00000	.00140	.00050	.12060	.00670
4.000	-9.000	-.03410	.04030	.00090	.00090	.00040	.11320	.00790
4.000	-8.000	-.02750	.03500	.00120	.00060	.00040	.10570	.00860
4.000	-7.000	-.02070	.03040	.00190	.00030	.00060	.09810	.00900
4.000	-6.000	-.01150	.02430	.00240	.00000	.00090	.08970	.00910
4.000	-.000	.00450	.01320	.00240	.00000	.00090	.08220	.00920
4.000	2.000	.02460	.00180	.00260	-.00020	.00090	.07570	.00910
4.000	4.000	.05270	-.02320	.00150	.00010	.00030	.07090	.00900
4.000	6.000	.07270	-.03790	.00180	.00010	.00040	.06690	.00900
4.000	8.000	.08430	-.04990	.00110	.00000	.00020	.06290	.00900
4.000	10.000	.09420	-.06020	.00140	.00070	.00090	.05690	.00900
GRADIENT		.00915	-.00666	-.00003	-.00002	-.00003	-.00342	.00001

MSFC 570 (TA31F) (Q3) / (T11) / (S3/2) / (S3/2)

(R93-289) (04 OCT 73)

REFERENCE DATA

SREF =	6.1980 SQ. IN	XREF =	2.5490 IN.
UREF =	5.3130 IN.	YREF =	.0000 IN.
BREF =	5.3130 IN.	ZREF =	.0000 IN.
SCALE =	.0040		

PARAMETRIC DATA

BETA =	.000	CONFIG =	121.000
DELTAZ =	.140	RUDER =	.000
X-SRB =	.000	CFEINC =	.500
SPACER =	.000	SPADIA =	.000
SPAGAP =	.000		

RUN NO. 1236/ 0 RM/L = 4.80 GRADIENT INTERVAL = -5.09/ 3.00

[illegible]

RUN NO. 1237/ 0 RN/L = 5.69 GRADIENT INTERVAL = -3.00/ 5.00

[illegible]

MSFC 570 (1A31F) (G3) / (T11) / (S3/2) / (S3/2)

(R43000) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

0.1990 SO. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONF10 = 121.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBITC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1240/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.052	-.110	.12620	-.07620	-.00490	.00500	.00000	.06870	.03740
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1247/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-.110	.08360	-.04310	-.00730	.00670	-.00020	.09090	.03150
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1249/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.961	-.110	.03020	-.01400	-.00120	.00240	.00030	.09690	.02490
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1251/ 0 RN/L = 4.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.070	.01620	.00640	.00130	.00050	.00030	.09460	.01500
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1253/ 0 RN/L = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.980	-.020	.01150	.00420	.00530	-.00190	.00130	.04940	-.00410
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000



DATE 03 NOV 74

TABULATED SOURCE DATA - NSFC 570

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MSFC 570 (1A31F) (03) / (T12) / (S3/2) / (S3/2)

(R03CA1) (04 OCT 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 122.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADTA = .000
 SPACAP = .000

RUN NO. 1243/ 0 RV/L = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.31480	.23120	-.00360	.00280	.00230	.02410	.03970
.902	-8.000	-.22880	.16930	-.00390	.00430	.00190	.02630	.03910
.902	-6.000	-.14840	.11350	-.00330	.00700	.00070	.03000	.03920
.902	-4.000	-.08060	.06660	-.00390	.00710	.00040	.03190	.03750
.902	-2.000	-.00840	.01630	-.01010	.00820	.00000	.03320	.03740
.902	.000	.07020	-.03680	-.00970	.00690	.00000	.03430	.03630
.902	2.000	.14060	-.09900	-.01290	.01030	-.00070	.03350	.03560
.902	4.000	.21720	-.13750	-.01240	.00990	.00000	.03190	.03490
.902	6.000	.29930	-.19290	-.01390	.01090	-.00070	.03030	.03430
.902	8.000	.37530	-.24300	-.01460	.01160	-.00110	.03150	.03490
.902	10.000	.44720	-.29370	-.01620	.01270	-.00070	.03370	.03560
GRADIENT		.03723	-.02548	-.00049	.00039	-.00007	.00001	-.00033

RUN NO. 1242/ 0 RV/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.33870	.27130	-.00210	.00270	.00100	.07840	.04350
1.248	-8.000	-.24250	.19770	-.00220	.00270	.00100	.07690	.04590
1.248	-6.000	-.14630	.12530	-.00290	.00310	.00090	.07900	.04600
1.248	-4.000	-.05300	.05600	-.00390	.00390	.00090	.09220	.04540
1.248	-2.000	.04070	-.01300	-.00340	.00310	.00020	.09390	.04350
1.248	.000	.13830	-.09380	-.00620	.00590	-.00040	.09690	.04300
1.248	2.000	.23190	-.15050	-.00680	.00650	-.00060	.09670	.04290
1.248	4.000	.31490	-.20770	-.00740	.00670	-.00040	.09670	.04300
1.248	6.000	.40420	-.26970	-.00850	.00720	-.00010	.09590	.04450
1.248	8.000	.47470	-.31750	-.01190	.01000	.00110	.09430	.04570
1.248	10.000	.53350	-.35790	-.01060	.00950	-.00020	.09330	.04640
GRADIENT		.04635	-.03324	-.00043	.00036	-.00017	.00049	-.00027

MSFC 570(1A31F)(C3)/(T12)/(S3/2)/(S3/2)

(R83C92) (04 OCT 73)

REFERENCE DATA

REF =	6.190 SQ. IN	XMP =	2.540 IN.
LRF =	5.330 IN.	YMP =	.000 IN.
BRF =	5.330 IN.	ZMP =	.000 IN.
SCALE =	.0040		

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	122.000
DELTAZ	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRBINC	=	.500
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.000			

RUN NO. 1241/ 0 RWL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 1246/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 3.00

[illegible]

RUN NO. 1249/ 0 RN/L = 6.89 GRADIENT INTERVAL = -3.00/ 3.00

[illegible]

RUN NO. 1250/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 1254/ 0 RN/L = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

MSFC 370 (1431F) (03) / (77) / (53/2) / (53/2)

(183043) (04 OCT 73)

REFERENCE DATA

BREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

RUN NO. 1538/ 0 RM/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.598	-.040	-.02300	-.02350	.00000	.00000	.00000	-.11340	.11390
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1539/ 0 RM/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.798	-.070	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1340/ 0 RM/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.900	-.100	.00630	.00640	.00000	.00000	.00000	.03110	-.03180
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1342/ 0 RM/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.048	-.090	.01300	.01330	.00000	.00000	.00000	.06420	-.06360
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1341/ 0 RM/L = 6.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.245	-.110	.02020	.02060	.00000	.00000	.00000	.09930	-.10160
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1349/ 0 RM/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.458	-.090	.02710	.02760	.00000	.00000	.00000	.13320	-.13500
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1350/ 0 RM/L = 7.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.947	-.110	.03250	.03320	.00000	.00000	.00000	.16020	-.15350
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

BETA = .000 CONF16 = 123.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000



(R03024) (04 OCT 73)

MSFC 370 (1A31F) (03) / (113) / (03/2) / (03/2)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 124.000
DELTAZ = .140 RUDDER = .000
X-SR9 = .000 COBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 1376/ 0 RM/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.046	-.100	.12110	-.07200	-.01090	.00970	-.00060	.07310	.03590
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1377/ 0 RM/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-.110	.13230	-.08090	-.01100	.00860	-.00150	.04640	.04620
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1366/ 0 RM/L = 6.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-.110	.07880	-.04400	-.01010	.00940	-.00140	.05840	.03400
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1363/ 0 RM/L = 5.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.959	-.110	.04670	-.01520	-.00480	.00430	-.00040	.09230	.02720
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1356/ 0 RM/L = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.080	.00890	.00870	-.00390	.00380	-.00100	.07990	.01610
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 1357/ 0 RM/L = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.030	-.01470	.01900	-.00330	.00340	-.00110	.07540	.00330
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



NSFC 370 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R03R01) (21 SEP 73)

REFERENCE DATA

SREF = .0720 SQ. IN XMRP = 2.3490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4001/ 0 RVL = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.04920	.00830	.02340	-.00690	.00000	.00000	.03660
.598	-8.000	-.03740	.00540	.00960	.00590	.00000	.00000	.03390
.598	-6.000	-.02240	-.00130	-.01810	.01720	.00000	.00000	.03120
.598	-5.000	-.01510	-.00490	-.02510	.02190	.00000	.00000	.03040
.598	-4.000	-.00900	-.00720	-.02960	.02530	.00000	.00000	.03030
.598	-2.000	.00040	-.01070	-.03290	.02940	.00000	.00000	.02990
.598	.000	.00780	-.01290	-.03010	.02620	.00000	.00000	.02990
.598	2.000	.01500	-.01590	-.02590	.02510	.00000	.00000	.03330
.598	4.000	.02190	-.01820	-.02180	.02090	.00000	.00000	.03490
.598	5.000	.02540	-.01900	-.01970	.01770	.00000	.00000	.03460
.598	6.000	.02880	-.01930	-.01440	.01340	.00000	.00000	.03430
.598	8.000	.03660	-.02040	.00030	.00170	.00000	.00000	.03460
.598	10.000	.04610	-.02230	.02400	-.01400	.00000	.00000	.03690
GRADIENT	.00395	-.00139	.00086	-.00033	.00000	.00000	.00000	.00051

RUN NO. 4002/ 0 RVL = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.803	-10.000	-.04980	.00680	.04330	-.00990	.00000	.00000	.03230
.803	-8.000	-.03950	.00530	.01810	.00220	.00000	.00000	.03120
.803	-6.000	-.02780	.00190	-.00330	.01360	.00000	.00000	.03040
.803	-5.000	-.02170	-.00030	-.01220	.01820	.00000	.00000	.02990
.803	-4.000	-.01560	-.00290	-.01900	.02210	.00000	.00000	.02990
.803	-2.000	-.00370	-.00840	-.02700	.02720	.00000	.00000	.02680
.803	.000	.00470	-.01140	-.02800	.02770	.00000	.00000	.02750
.803	2.000	.01420	-.01590	-.02470	.02430	.00000	.00000	.02920
.803	4.000	.02270	-.01920	-.01870	.01920	.00000	.00000	.03050
.803	5.000	.02630	-.02010	-.01450	.01590	.00000	.00000	.03120
.803	6.000	.03020	-.02110	-.00960	.01210	.00000	.00000	.03210
.803	8.000	.03900	-.02330	.00320	.00190	.00000	.00000	.03390
.803	10.000	.04530	-.02580	.02700	-.01160	.00000	.00000	.03540
GRADIENT	.00477	-.00199	.00006	-.00032	.00000	.00000	.00000	.00019

MSFC 570 (1A31F) (S3/2) (G31) (T9) (S3/2)

(R93R01) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

XWRP = 2.5490 IN.
 YWRP = .0000 IN.
 ZWRP = .0000 IN.

PARAMETRIC DATA

BETA = .000 CCAFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4003/ 0 RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.899	-10.000	-.05220	.00670	.04900	-.00920	.00000	.00000	.03000
.899	-8.000	-.04000	.00310	.02500	.00000	.00000	.00000	.02700
.899	-6.000	-.02840	.00210	.00390	.01110	.00000	.00000	.02620
.899	-5.000	-.02270	.00000	-.00470	.01560	.00000	.00000	.02610
.899	-4.000	-.01690	-.00270	-.01250	.01960	.00000	.00000	.02660
.899	-2.000	-.00650	-.00690	-.02350	.02370	.00000	.00000	.02620
.899	.000	.00250	-.01030	-.02710	.02740	.00000	.00000	.02720
.899	2.000	.01370	-.01640	-.02500	.02570	.00000	.00000	.02840
.899	4.000	.02410	-.02080	-.01770	.01970	.00000	.00000	.02940
.899	5.000	.02860	-.02230	-.01230	.01530	.00000	.00000	.03100
.899	6.000	.03310	-.02400	-.00660	.01160	.00000	.00000	.03450
.899	8.000	.04220	-.02700	.00890	.00200	.00000	.00000	.03920
.899	10.000	.05130	-.02900	.03030	-.01020	.00000	.00000	.00000
GRADIENT		.00312	-.00225	-.00069	-.00000	.00000	.00000	.00029

RUN NO. 4004/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.049	-10.000	-.06150	.01020	.04150	-.00740	.00000	.00000	.01990
1.049	-8.000	-.04880	.00960	.01620	.00390	.00000	.00000	.01910
1.049	-6.000	-.03690	.00830	-.00780	.01370	.00000	.00000	.01620
1.049	-5.000	-.03110	.00700	-.01730	.02090	.00000	.00000	.01530
1.049	-4.000	-.02540	.00530	-.02440	.02550	.00000	.00000	.01460
1.049	-2.000	-.01360	.00140	-.03200	.03130	.00000	.00000	.01290
1.049	.000	-.00360	-.00270	-.03140	.03170	.00000	.00000	.01320
1.049	2.000	.00740	-.00890	-.02550	.02760	.00000	.00000	.01420
1.049	4.000	.01830	-.01460	-.01870	.02210	.00000	.00000	.01490
1.049	5.000	.02370	-.01710	-.01450	.01890	.00000	.00000	.01530
1.049	6.000	.02950	-.02000	-.00910	.01510	.00000	.00000	.01710
1.049	8.000	.04200	-.02590	.00670	.00480	.00000	.00000	.02070
1.049	10.000	.05550	-.03180	.02970	-.00910	.00000	.00000	.00000
GRADIENT		.00545	-.00245	.00055	-.00034	.00000	.00000	-.00003



MSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R83R01) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4003/ 0 RV/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.06790	.00730	.03020	-.00920	.00000	.00000	.03490
1.248	-8.000	-.05010	.00390	.02100	.00450	.00000	.00000	.03370
1.248	-6.000	-.03510	.00100	-.00470	.01900	.00000	.00000	.03220
1.248	-5.000	-.02880	.00030	-.01590	.02440	.00000	.00000	.03140
1.248	-4.000	-.02340	.00030	-.02570	.03040	.00000	.00000	.03070
1.248	-2.000	-.01450	.00060	-.03570	.03760	.00000	.00000	.02790
1.248	.000	-.00680	-.00010	-.03490	.03760	.00000	.00000	.02770
1.248	2.000	.00330	-.00460	-.02890	.03290	.00000	.00000	.02670
1.248	4.000	.01330	-.00890	-.02200	.02810	.00000	.00000	.02590
1.248	5.000	.01810	-.01060	-.01750	.02530	.00000	.00000	.02970
1.248	6.000	.02300	-.01200	-.01170	.02150	.00000	.00000	.02930
1.248	8.000	.03630	-.01750	.00620	.01090	.00000	.00000	.02950
1.248	10.000	.05490	-.02680	.03350	-.00370	.00000	.00000	.03130
GRADIENT		.00463	-.00113	.00023	-.00016	.00000	.00000	-.00013

RUN NO. 4036/ 0 RV/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.460	-10.000	-.07950	.01620	.05360	-.01270	.00000	.00000	.02630
1.460	-8.000	-.05480	.00720	.02420	.00410	.00000	.00000	.02520
1.460	-6.000	-.03890	.00390	-.00420	.02010	.00000	.00000	.02440
1.460	-5.000	-.03240	.00350	-.01600	.02680	.00000	.00000	.02460
1.460	-4.000	-.02660	.00350	-.02570	.03240	.00000	.00000	.02530
1.460	-2.000	-.01720	.00390	-.03710	.04030	.00000	.00000	.02410
1.460	.000	-.00880	.00290	-.03650	.04060	.00000	.00000	.02440
1.460	2.000	.00030	-.00010	-.03080	.03680	.00000	.00000	.02570
1.460	4.000	.00900	-.00290	-.02390	.03180	.00000	.00000	.02620
1.460	5.000	.01350	-.00410	-.01930	.02880	.00000	.00000	.02630
1.460	6.000	.01860	-.00560	-.01410	.02540	.00000	.00000	.02590
1.460	8.000	.03020	-.00890	.00300	.01600	.00000	.00000	.02620
1.460	10.000	.04370	-.01230	.03000	.00270	.00000	.00000	.02910
GRADIENT		.00452	-.00080	.00004	.00001	.00000	.00000	.00017

(R43R01) (21 SEP 73)

MSFC 570 (IA31F) (S3/2) (G3) (T9) (S3/2)

INDICATED SOURCE DATA - MSFC 310

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CXPIC = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4037/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.959	-10.000	-1.0430	.03390	.03630	-.02810	.00000	.00000	.02340
1.959	-8.000	-.07160	.01940	.04150	-.01760	.00000	.00000	.01990
1.959	-6.000	-.04730	.00910	.01690	-.00070	.00000	.00000	.01900
1.959	-5.000	-.03840	.00700	.00360	.00910	.00000	.00000	.01980
1.959	-4.000	-.03140	.00620	-.00920	.01670	.00000	.00000	.01950
1.959	-2.000	-.01960	.00340	-.02540	.02940	.00000	.00000	.01790
1.959	.000	-.01090	.00320	-.02900	.03420	.00000	.00000	.01760
1.959	2.000	-.00160	.00290	-.02650	.03330	.00000	.00000	.01920
1.959	4.000	.00720	.00120	-.02000	.02990	.00000	.00000	.01740
1.959	5.000	.01240	.00040	-.01450	.02320	.00000	.00000	.01710
1.959	6.000	.01950	-.00190	-.00730	.02030	.00000	.00000	.01800
1.959	8.000	.03700	-.00760	.01330	.00700	.00000	.00000	.02050
1.959	10.000	.05870	-.01450	.04290	-.01060	.00000	.00000	.02310
GRADIENT		.00494	-.00055	-.00151	.00159	.00000	.00000	-.00014

RUN NO. 4060/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	-.09450	.03860	.03740	-.01690	.00000	.00000	.01300
2.990	-8.000	-.07520	.02920	.03250	-.01610	.00000	.00000	.01290
2.990	-6.000	-.05350	.01800	.02110	-.00910	.00000	.00000	.01000
2.990	-5.000	-.04330	.01290	.01340	-.00360	.00000	.00000	.00990
2.990	-4.000	-.03420	.00950	.00390	.00360	.00000	.00000	.00970
2.990	-2.000	-.01960	.00330	-.01370	.01810	.00000	.00000	.00960
2.990	.000	-.00970	.00200	-.02270	.02630	.00000	.00000	.00930
2.990	2.000	.00060	-.00060	-.02310	.02920	.00000	.00000	.00950
2.990	4.000	.01080	-.00350	-.01720	.02420	.00000	.00000	.00950
2.990	5.000	.01620	-.00490	-.01200	.02030	.00000	.00000	.00950
2.990	6.000	.02230	-.00650	-.00440	.01460	.00000	.00000	.00950
2.990	8.000	.03770	-.01240	.00990	.00440	.00000	.00000	.01010
2.990	10.000	.05750	-.02200	.01900	-.00340	.00000	.00000	.01090
GRADIENT		.00575	-.00161	-.00256	.00247	.00000	.00000	.00007



DATE 03 NOV 74

TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2)/(Q3)/(T9)/(S3/2)

(R03R01) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCNFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4059/ 0 RIVL = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09510	.04440	.02920	-.01100	.00000	.00000	.01110
3.480	-8.000	-.07830	.03890	.02450	-.01000	.00000	.00000	.01090
3.480	-6.000	-.05910	.02710	.01660	-.00590	.00000	.00000	.00910
3.480	-5.000	-.04940	.02190	.01090	-.00190	.00000	.00000	.00940
3.480	-4.000	-.03990	.01690	.00330	.00360	.00000	.00000	.00790
3.480	-2.000	-.02540	.01100	-.01200	.01610	.00000	.00000	.00750
3.480	.000	-.01470	.00870	-.02080	.02410	.00000	.00000	.00900
3.480	2.000	-.00390	.00450	-.02080	.02370	.00000	.00000	.00930
3.480	4.000	.00670	.00080	-.01400	.02130	.00000	.00000	.00940
3.480	5.000	.01240	-.00090	-.00910	.01770	.00000	.00000	.00760
3.480	6.000	.01980	-.00330	-.00320	.01280	.00000	.00000	.00770
3.480	8.000	.03540	-.01090	.00730	.00440	.00000	.00000	.00790
3.480	10.000	.05720	-.02200	.01580	-.00190	.00000	.00000	.00780
GRADIENT		.00596	-.00213	-.00207	.00209	.00000	.00000	.00002

RUN NO. 4058/ 0 RIVL = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.06880	.03540	.01680	-.00280	.00000	.00000	.00390
4.960	-8.000	-.05850	.02980	.01350	-.00250	.00000	.00000	.00310
4.960	-6.000	-.04200	.02230	.00780	.00060	.00000	.00000	.00330
4.960	-5.000	-.03310	.01970	.00380	.00340	.00000	.00000	.00340
4.960	-4.000	-.02930	.01570	-.00100	.00750	.00000	.00000	.00360
4.960	-2.000	-.01990	.01220	-.00860	.01400	.00000	.00000	.00390
4.960	.000	-.01090	.00900	-.01200	.01730	.00000	.00000	.00410
4.960	2.000	.00000	.00380	-.01020	.01640	.00000	.00000	.00400
4.960	4.000	.01120	-.00160	-.00320	.01160	.00000	.00000	.00370
4.960	5.000	.01700	-.00430	-.00200	.00900	.00000	.00000	.00360
4.960	6.000	.02310	-.00720	.00160	.00620	.00000	.00000	.00340
4.960	8.000	.03640	-.01350	.01070	.00080	.00000	.00000	.00300
4.960	10.000	.05100	-.02050	.02180	-.00440	.00000	.00000	.00240
GRADIENT		.00314	-.00223	-.00054	.00056	.00000	.00000	.00002

REFERENCE DATA

SREF = .9720 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

XMRP = 2.5490 IN.
YMRP = .0000 IN.
ZMRP = .0000 IN.

BETA = .000
DELTAZ = .140
X-SRB = .000
SPACER = .000
SPAGAP = .000

CONFIC = 400.000
RUDDER = .000
CRSTNC = .500
SPADIA = .000

PARAMETRIC DATA

RUN NO. 4020/ 0 RW/L = 4.97 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.05110	.00950	.02620	-.00960	.00000	.00000	.03670
.599	-8.000	-.03960	.00690	.00470	.00270	.00000	.00000	.03380
.599	-6.000	-.02310	.00030	-.01390	.01450	.00000	.00000	.03590
.599	-5.000	-.01780	-.00300	-.02110	.01940	.00000	.00000	.02990
.599	-4.000	-.01150	-.00570	-.02670	.02340	.00000	.00000	.02980
.599	-2.000	-.00180	-.00910	-.03240	.02950	.00000	.00000	.02990
.599	.000	.00370	-.01140	-.02950	.02750	.00000	.00000	.02700
.599	2.000	.01340	-.01470	-.02310	.02460	.00000	.00000	.02820
.599	4.000	.02030	-.01670	-.02070	.02020	.00000	.00000	.02910
.599	5.000	.02350	-.01710	-.01740	.01690	.00000	.00000	.02910
.599	6.000	.02990	-.01790	-.01360	.01290	.00000	.00000	.02970
.599	8.000	.03430	-.01840	.00000	.00230	.00000	.00000	.03090
.599	10.000	.04310	-.01920	.02220	-.01180	.00000	.00000	.03220
GRADIENT		.00405	-.00140	.00063	-.00037	.00000	.00000	-.00009

RUN NO. 4019/ 0 RW/L = 5.93 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.798	-10.000	-.05090	.00960	.04380	-.01170	.00000	.00000	.02940
.798	-8.000	-.04050	.00720	.01790	.00120	.00000	.00000	.02700
.798	-6.000	-.03030	.00450	-.00350	.01270	.00000	.00000	.02590
.798	-5.000	-.02490	.00260	-.01170	.01730	.00000	.00000	.02360
.798	-4.000	-.01920	.00020	-.01780	.02090	.00000	.00000	.02370
.798	-2.000	-.00670	-.00350	-.02660	.02640	.00000	.00000	.02460
.798	.000	.00160	-.00930	-.02790	.02710	.00000	.00000	.02310
.798	2.000	.00980	-.01200	-.02470	.02490	.00000	.00000	.02610
.798	4.000	.01970	-.01590	-.01860	.01970	.00000	.00000	.02620
.798	5.000	.02300	-.01710	-.01430	.01610	.00000	.00000	.02640
.798	6.000	.02700	-.01800	-.00930	.01230	.00000	.00000	.02690
.798	8.000	.03580	-.02010	.00320	.00240	.00000	.00000	.02910
.798	10.000	.04600	-.02320	.02640	-.01060	.00000	.00000	.03290
GRADIENT		.00471	-.00195	-.00014	-.00015	.00000	.00000	.00010



MSFC 570 (TA31F) (S3/2)/(C3)/(T9)/(S3/2)

(R03R02) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4018/ 0 RN/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.03480	.01000	.03260	-.01190	.00000	.00000	.03000
.902	-8.000	-.04330	.00970	.02730	-.00080	.00000	.00000	.02770
.902	-6.000	-.03360	.00740	.00450	.01020	.00000	.00000	.02610
.902	-5.000	-.02850	.00570	-.00460	.01490	.00000	.00000	.02360
.902	-4.000	-.02270	.00390	-.01220	.01990	.00000	.00000	.02530
.902	-2.000	-.01190	-.00160	-.02280	.02480	.00000	.00000	.02460
.902	.000	-.00230	-.00370	-.02630	.02660	.00000	.00000	.02520
.902	2.000	.00890	-.01160	-.02520	.02610	.00000	.00000	.02560
.902	4.000	.01870	-.01600	-.01940	.02090	.00000	.00000	.02600
.902	5.000	.02300	-.01750	-.01320	.01700	.00000	.00000	.02660
.902	6.000	.02790	-.01940	-.00740	.01290	.00000	.00000	.02790
.902	8.000	.03770	-.02280	.00790	.00320	.00000	.00000	.02940
.902	10.000	.04750	-.02550	.02850	-.00800	.00000	.00000	.02920
GRADIENT		.00516	-.00236	-.00091	.00023	.00000	.00000	.00011

RUN NO. 4016/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.06780	.01560	.04290	-.00790	.00000	.00000	.02140
1.050	-8.000	-.05360	.01390	.01600	.00430	.00000	.00000	.01970
1.050	-6.000	-.04150	.01250	-.00850	.01660	.00000	.00000	.01700
1.050	-5.000	-.03550	.01120	-.01830	.02220	.00000	.00000	.01640
1.050	-4.000	-.02930	.00930	-.02590	.02720	.00000	.00000	.01590
1.050	-2.000	-.01800	.00540	-.03410	.03370	.00000	.00000	.01490
1.050	.000	-.00850	.00190	-.03350	.03420	.00000	.00000	.01440
1.050	2.000	.00320	-.00460	-.02760	.03090	.00000	.00000	.01430
1.050	4.000	.01460	-.01110	-.01950	.02360	.00000	.00000	.01550
1.050	5.000	.02000	-.01380	-.01470	.02000	.00000	.00000	.01650
1.050	6.000	.02590	-.01680	-.01020	.00000	.00000	.00000	.01820
1.050	8.000	.03830	-.02270	.00490	.00670	.00000	.00000	.01920
1.050	10.000	.05160	-.02860	.02950	-.00730	.00000	.00000	.01650
GRADIENT		.00551	-.00252	.00063	-.00036	.00000	.00000	-.00002

MSFC 570 (1A31F) (S3/2) (103) (19) (S3/2)

(R33002) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 COARFIC = 400.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4017/ 0 RN/L = 6.73 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.249	-10.000	-.07230	.01190	.03270	-.01100	.00000	.00000	.03390
1.249	-9.000	-.03460	.00970	.02270	.00290	.00000	.00000	.03160
1.249	-8.000	-.04000	.00610	-.00330	.01690	.00000	.00000	.02990
1.249	-7.000	-.03380	.00540	-.01470	.02350	.00000	.00000	.02930
1.249	-6.000	-.02830	.00510	-.02470	.02990	.00000	.00000	.02930
1.249	-5.000	-.02000	.00350	-.03590	.03840	.00000	.00000	.02970
1.249	-4.000	-.01340	.00600	-.03620	.03950	.00000	.00000	.02930
1.249	-3.000	-.00170	.00010	-.02990	.03430	.00000	.00000	.03000
1.249	2.000	.00900	-.00490	-.02290	.02950	.00000	.00000	.03000
1.249	4.000	.01370	-.00650	-.01950	.02710	.00000	.00000	.03060
1.249	6.000	.01870	-.00820	-.01310	.02390	.00000	.00000	.03100
1.249	8.000	.03190	-.01390	.00370	.01460	.00000	.00000	.03100
1.249	10.000	.04990	-.02270	.02990	.00160	.00000	.00000	.02990
GRADIENT		.00470	-.00123	-.00000	.00010	.00000	.00000	.00015

RUN NO. 4034/ 0 RN/L = 6.52 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.461	-10.000	-.08250	.01900	.05880	-.01700	.00000	.00000	.02590
1.461	-9.000	-.05680	.00920	.02740	.00130	.00000	.00000	.02470
1.461	-8.000	-.04080	.00570	-.00120	.01760	.00000	.00000	.02390
1.461	-7.000	-.03460	.00540	-.01330	.02440	.00000	.00000	.02410
1.461	-6.000	-.02910	.00570	-.02340	.03030	.00000	.00000	.02460
1.461	-5.000	-.02070	.00730	-.03530	.03990	.00000	.00000	.02450
1.461	-4.000	-.01340	.00720	-.03500	.03930	.00000	.00000	.02450
1.461	-3.000	-.00310	.00310	-.02900	.03510	.00000	.00000	.02560
1.461	2.000	.00590	.00000	-.02170	.02990	.00000	.00000	.02590
1.461	4.000	.00990	-.00090	-.01720	.02710	.00000	.00000	.02660
1.461	6.000	.01480	-.00220	-.01230	.02430	.00000	.00000	.02590
1.461	8.000	.02580	-.00500	.00390	.01600	.00000	.00000	.02760
1.461	10.000	.03840	-.00810	.02920	.00400	.00000	.00000	.02830
GRADIENT		.00442	-.00030	-.00000	.00005	.00000	.00000	.00027



WSFC 570 (1A31F) (S3/2)/(03)/(79)/(S3/2)

(R63R02) (21 SEP 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4039/ 0 RVL = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.000	-.10670	.03600	.06150	-.03190	.00000	.00000	.02230
1.966	-8.000	-.07320	.02150	.04180	-.02220	.00000	.00000	.02180
1.966	-6.000	-.05030	.01170	.02080	-.00530	.00000	.00000	.02030
1.966	-5.000	-.04110	.00920	.00770	.00340	.00000	.00000	.01930
1.966	-4.000	-.03390	.00810	-.00460	.01290	.00000	.00000	.01830
1.966	-2.000	-.02270	.00790	-.02180	.02560	.00000	.00000	.01820
1.966	.000	-.01490	.00890	-.02600	.03110	.00000	.00000	.01800
1.966	2.000	-.00600	.00720	-.02470	.03160	.00000	.00000	.01790
1.966	4.000	.00320	.00540	-.01810	.02790	.00000	.00000	.01650
1.966	5.000	.00870	.00420	-.01220	.02400	.00000	.00000	.01640
1.966	6.000	.01560	.00220	-.00440	.01870	.00000	.00000	.01780
1.966	8.000	.03390	-.00440	.01610	.00550	.00000	.00000	.02000
1.966	10.000	.05810	-.01470	.04300	-.01050	.00000	.00000	.02180
	GRADIENT	.00479	-.00041	-.00177	.00198	.00000	.00000	-.00025

RUN NO. 4035/ 0 RVL = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.09810	.04250	.03900	-.01870	.00000	.00000	.01330
2.990	-8.000	-.07880	.03290	.03440	-.01820	.00000	.00000	.01320
2.990	-6.000	-.05750	.02180	.02390	-.01190	.00000	.00000	.01130
2.990	-5.000	-.04730	.01650	.01630	-.00640	.00000	.00000	.01020
2.990	-4.000	-.03790	.01190	.00630	.00130	.00000	.00000	.00910
2.990	-2.000	-.02270	.00630	-.01210	.01650	.00000	.00000	.00840
2.990	.000	-.01230	.00460	-.02230	.02590	.00000	.00000	.00790
2.990	2.000	-.00270	.00220	-.02260	.02780	.00000	.00000	.00870
2.990	4.000	.00680	-.00040	-.01640	.02380	.00000	.00000	.01000
2.990	5.000	.01230	-.00210	-.01140	.02000	.00000	.00000	.01090
2.990	6.000	.01930	-.00440	-.00470	.01460	.00000	.00000	.00980
2.990	8.000	.03530	-.01110	.00910	.00390	.00000	.00000	.01010
2.990	10.000	.05390	-.02020	.02310	-.00630	.00000	.00000	.01170
	GRADIENT	.00574	-.00167	-.00278	.00272	.00000	.00000	.00004

WSFC 570 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R03P02) (21 SEP 73)

REFERENCE DATA

BREF = .0720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 400.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ZGBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4056/ 0 RM/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
3.480	-10.000	-.09930	.04760	.03130	-.01300	.00000	.00000	.01100
3.480	-8.000	-.08070	.03940	.02590	-.01160	.00000	.00000	.01050
3.480	-6.000	-.06260	.03040	.01970	-.00770	.00000	.00000	.00940
3.480	-5.000	-.05330	.02450	.01290	-.00370	.00000	.00000	.00870
3.480	-4.000	-.04360	.02030	.00470	.00220	.00000	.00000	.00800
3.480	-2.000	-.02840	.01370	-.01040	.01470	.00000	.00000	.00940
3.480	.000	-.01800	.01150	-.01990	.02350	.00000	.00000	.00950
3.480	2.000	-.00710	.00790	-.02080	.02590	.00000	.00000	.00930
3.480	4.000	.00370	.00330	-.01330	.02080	.00000	.00000	.00870
3.480	5.000	.00970	.00080	-.00900	.01650	.00000	.00000	.00800
3.480	6.000	.01680	-.00220	-.00230	.01200	.00000	.00000	.00810
3.480	8.000	.03360	-.00990	.00770	.00400	.00000	.00000	.00820
3.480	10.000	.05370	-.01950	.01600	-.00180	.00000	.00000	.00810
GRADIENT		.00608	-.00225	-.00219	.00220	.00000	.00000	.00001

RUN NO. 4057/ 0 RM/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
4.960	-10.000	-.07440	.04000	.01940	-.00460	.00000	.00000	.00390
4.960	-8.000	-.06060	.03320	.01490	-.00350	.00000	.00000	.00360
4.960	-6.000	-.04610	.02560	.00940	-.00060	.00000	.00000	.00370
4.960	-5.000	-.03920	.02200	.00360	.00210	.00000	.00000	.00370
4.960	-4.000	-.03240	.01990	-.00040	.00700	.00000	.00000	.00360
4.960	-2.000	-.02200	.01480	-.00850	.01400	.00000	.00000	.00390
4.960	.000	-.01460	.01310	-.01120	.01650	.00000	.00000	.00400
4.960	2.000	-.00490	.00870	-.00970	.01470	.00000	.00000	.00390
4.960	4.000	.00790	.00110	-.00220	.00980	.00000	.00000	.00370
4.960	5.000	.01490	-.00290	.00090	.00700	.00000	.00000	.00360
4.960	6.000	.02200	-.00660	.00330	.00500	.00000	.00000	.00350
4.960	8.000	.03690	-.01340	.00370	.00290	.00000	.00000	.00330
4.960	10.000	.05250	-.01920	.00480	.00330	.00000	.00000	.00320
GRADIENT		.00517	-.00230	-.00035	.00040	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSPC 370

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MSFC 370 (1A31F) (S3/2) (OS) / (79) / (S3/2)

(R03R03) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4021/ 1 RN/L = 4.99 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.000	-.03370	.01240	.02820	-.01180	.00000	.00000	.03610
.600	-8.000	-.04230	.00930	.00780	.00030	.00000	.00000	.03260
.600	-6.000	-.02700	.00240	-.01160	.01260	.00000	.00000	.03130
.600	-5.000	-.01980	-.00090	-.01930	.01760	.00000	.00000	.03090
.600	-4.000	-.01430	-.00270	-.02470	.02100	.00000	.00000	.02970
.600	-2.000	-.00480	-.00610	-.02960	.02590	.00000	.00000	.02950
.600	.000	.00260	-.00830	-.02690	.02340	.00000	.00000	.02730
.600	2.000	.01060	-.01200	-.02240	.02230	.00000	.00000	.02630
.600	4.000	.01860	-.01530	-.01960	.01810	.00000	.00000	.03090
.600	5.000	.02210	-.01620	-.01550	.01510	.00000	.00000	.03190
.600	6.000	.02460	-.01610	-.01090	.01090	.00000	.00000	.03300
.600	8.000	.03160	-.01660	.00290	.00080	.00000	.00000	.03440
.600	10.000	.04150	-.01870	.02150	-.01120	.00000	.00000	.03490
GRADIENT		.00415	-.00134	.00064	-.00033	.00000	.00000	.00011

RUN NO. 4022/ 0 RN/L = 5.96 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	-.03560	.01300	.04600	-.01430	.00000	.00000	.02900
.799	-8.000	-.04440	.01060	.02090	-.00160	.00000	.00000	.02780
.799	-6.000	-.03330	.00710	.00020	.00940	.00000	.00000	.02720
.799	-5.000	-.02790	.00320	-.00790	.01410	.00000	.00000	.02690
.799	-4.000	-.02260	.00330	-.01460	.01800	.00000	.00000	.02690
.799	-2.000	-.01240	-.00040	-.02430	.02410	.00000	.00000	.02480
.799	.000	-.00320	-.00400	-.02650	.02550	.00000	.00000	.02510
.799	2.000	.00560	-.00830	-.02350	.02350	.00000	.00000	.02620
.799	4.000	.01550	-.01270	-.01730	.01830	.00000	.00000	.02700
.799	5.000	.02050	-.01460	-.01280	.01430	.00000	.00000	.02750
.799	6.000	.02460	-.01610	-.00710	.01010	.00000	.00000	.02850
.799	8.000	.03330	-.01850	.00790	.00010	.00000	.00000	.02970
.799	10.000	.04280	-.02060	.02810	-.01110	.00000	.00000	.02970
GRADIENT		.00479	-.00199	-.00037	.00002	.00000	.00000	.00011

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 OPENING = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4023/ 0 RWL = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.03920	.01430	.04000	-.01420	.00000	.00000	.02950
.900	-8.000	-.04870	.01320	.02850	-.00230	.00000	.00000	.02730
.900	-6.000	-.03720	.01050	.00540	.00820	.00000	.00000	.02530
.900	-5.000	-.03150	.00850	-.00240	.01290	.00000	.00000	.02470
.900	-4.000	-.02620	.00620	-.00350	.01570	.00000	.00000	.02450
.900	-3.000	-.01550	.00170	-.00260	.02250	.00000	.00000	.02530
.900	-2.000	-.00610	-.00210	-.02440	.02470	.00000	.00000	.02520
.900	2.000	.00490	-.00790	-.02260	.02340	.00000	.00000	.02580
.900	4.000	.01520	-.01270	-.01640	.01910	.00000	.00000	.02620
.900	5.000	.01990	-.01460	-.01150	.01590	.00000	.00000	.02630
.900	6.000	.02430	-.01640	-.00560	.01190	.00000	.00000	.02630
.900	8.000	.03390	-.02000	.00990	.00200	.00000	.00000	.02800
.900	10.000	.04390	-.02340	.00010	-.00990	.00000	.00000	.02950
GRADIENT		.00514	-.00233	-.00096	.00029	.00000	.00000	.00017

RUN NO. 4023/ 0 RWL = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.07110	.01930	.04650	-.01190	.00000	.00000	.02090
1.050	-8.000	-.05710	.01730	.02020	.00030	.00000	.00000	.01870
1.050	-6.000	-.04440	.01530	-.00300	.01330	.00000	.00000	.01720
1.050	-5.000	-.03870	.01430	-.01490	.01900	.00000	.00000	.01640
1.050	-4.000	-.03350	.01330	-.02220	.02390	.00000	.00000	.01560
1.050	-3.000	-.02230	.00950	-.00300	.03090	.00000	.00000	.01490
1.050	-2.000	-.01330	.00630	-.00390	.03200	.00000	.00000	.01450
1.050	2.000	-.00050	-.00140	-.02550	.02840	.00000	.00000	.01500
1.050	4.000	.01170	-.00890	-.01790	.02230	.00000	.00000	.01590
1.050	5.000	.01700	-.01170	-.01310	.01950	.00000	.00000	.01620
1.050	6.000	.02270	-.01460	-.00770	.01470	.00000	.00000	.01670
1.050	8.000	.03510	-.02030	.00730	.00340	.00000	.00000	.01790
1.050	10.000	.04870	-.02660	.00260	-.00500	.00000	.00000	.01890
GRADIENT		.00559	-.00267	.00041	-.00015	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(03)/(T9)/(S3/2)

(093R03) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4024/ 0 R/V/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.07610	.01310	.03780	-.01520	.00000	.00000	.03330
1.245	-8.000	-.03800	.01140	.02640	-.00080	.00000	.00000	.03140
1.245	-6.000	-.04310	.00870	.00120	.01200	.00000	.00000	.03070
1.245	-5.000	-.03710	.00820	-.00970	.01850	.00000	.00000	.03020
1.245	-4.000	-.03210	.00530	-.01980	.02500	.00000	.00000	.02950
1.245	-2.000	-.02340	.00850	-.03230	.03500	.00000	.00000	.02910
1.245	.000	-.01790	.00990	-.03370	.03730	.00000	.00000	.02890
1.245	2.000	-.00680	.03420	-.02830	.03290	.00000	.00000	.03030
1.245	4.000	.00440	-.00130	-.02090	.02780	.00000	.00000	.03110
1.245	5.000	.00930	-.00300	-.01630	.02340	.00000	.00000	.03020
1.245	6.000	.01460	-.00500	-.01080	.02220	.00000	.00000	.02930
1.245	8.000	.02720	-.00990	.00550	.01390	.00000	.00000	.02890
1.245	10.000	.04290	-.01650	.02930	.00240	.00000	.00000	.03070
GRADIENT		.00457	-.00114	-.00034	.00046	.00000	.00000	.00010

RUN NO. 4032/ 0 R/V/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-10.000	-.08540	.02150	.06230	-.02030	.00000	.00000	.02680
1.459	-8.000	-.06020	.01200	.03180	-.00280	.00000	.00000	.02570
1.459	-6.000	-.04440	.00840	.00290	.01360	.00000	.00000	.02430
1.459	-5.000	-.03810	.00800	-.00950	.02090	.00000	.00000	.02410
1.459	-4.000	-.03230	.00810	-.02050	.02750	.00000	.00000	.02430
1.459	-2.000	-.02400	.00970	-.03240	.03610	.00000	.00000	.02390
1.459	.000	-.01820	.01150	-.03300	.03760	.00000	.00000	.02400
1.459	2.000	-.00740	.00680	-.02710	.03350	.00000	.00000	.02550
1.459	4.000	.00220	.00280	-.01970	.02860	.00000	.00000	.02670
1.459	5.000	.00620	.00180	-.01530	.02620	.00000	.00000	.02720
1.459	6.000	.01070	.00080	-.01010	.02320	.00000	.00000	.02810
1.459	8.000	.02150	-.00170	.00520	.01570	.00000	.00000	.02930
1.459	10.000	.03490	-.00550	.02780	.00610	.00000	.00000	.02920
GRADIENT		.00436	-.00065	-.00017	.00029	.00000	.00000	.00032

(R03603) (21 SEP 73)

MSFC 570(1A31F)(S3/2)/(G31/179)/(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 3.3130 IN.
 BREF = 3.3130 IN.
 SCALE = .0040

BETA = .000
 DELTAZ = .140
 X-SPD = .000
 SPACER = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4041/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.967	-10.000	-1.11030	.03930	.06490	-.03530	.00000	.00000	.02300
1.967	-8.000	-.07800	.02370	.02050	-.02730	.00000	.00000	.01910
1.967	-6.000	-.03360	.01440	.02340	-.01000	.00000	.00000	.01920
1.967	-5.000	-.04460	.01200	.01200	-.00000	.00000	.00000	.01490
1.967	-4.000	-.03740	.01090	-.00000	.00780	.00000	.00000	.01790
1.967	-2.000	-.02700	.01140	-.01770	.02190	.00000	.00000	.01620
1.967	.000	-.02030	.01340	-.02390	.02940	.00000	.00000	.01530
1.967	2.000	-.01180	.01270	-.02410	.03130	.00000	.00000	.01530
1.967	4.000	-.00130	.01000	-.01750	.02750	.00000	.00000	.01630
1.967	5.000	.00500	.00790	-.01100	.02340	.00000	.00000	.01660
1.967	6.000	.01330	.00420	-.00190	.01730	.00000	.00000	.01750
1.967	8.000	.03270	-.00420	.01950	.00350	.00000	.00000	.01940
1.967	10.000	.05550	-.01340	.04490	-.01150	.00000	.00000	.02290
GRADIENT		.00470	-.00024	-.00214	.00243	.00000	.00000	-.00023

RUN NO. 4034/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	-.10160	.04570	.04150	-.02110	.00000	.00000	.01360
2.990	-8.000	-.08120	.03570	.03370	-.01990	.00000	.00000	.01390
2.990	-6.000	-.06020	.02480	.02540	-.01370	.00000	.00000	.01060
2.990	-5.000	-.05020	.01940	.01900	-.00920	.00000	.00000	.00920
2.990	-4.000	-.04020	.01450	.00820	-.00070	.00000	.00000	.00990
2.990	-2.000	-.02590	.00930	-.01010	.01460	.00000	.00000	.00970
2.990	.000	-.01530	.00720	-.02090	.02470	.00000	.00000	.00930
2.990	2.000	-.00320	.00490	-.02290	.02790	.00000	.00000	.01040
2.990	4.000	.00460	.00200	-.01630	.02390	.00000	.00000	.01590
2.990	5.000	.01040	.00010	-.01090	.01990	.00000	.00000	.01030
2.990	6.000	.01740	-.00220	-.00390	.01420	.00000	.00000	.01050
2.990	8.000	.03350	-.00910	.00960	.00370	.00000	.00000	.01370
2.990	10.000	.05230	-.01950	.02240	-.00500	.00000	.00000	.01100
GRADIENT		.00582	-.00173	-.00297	.00294	.00000	.00000	.00014



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R03R03) (21 SEP 73)

REFERENCE DATA

SREP = .8720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4053/ 0 RIVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.0250	.05190	.03320	-.01490	.00000	.00000	.01110
3.480	-8.000	-.03420	.04320	.02830	-.01390	.00000	.00000	.00990
3.480	-6.000	-.06580	.03390	.02020	-.00940	.00000	.00000	.00940
3.480	-4.000	-.03650	.02900	.01440	-.00540	.00000	.00000	.00900
3.480	-2.000	-.04700	.02400	.00700	.00010	.00000	.00000	.00820
3.480	-2.000	-.03150	.01710	-.00910	.01340	.00000	.00000	.00890
3.480	.000	-.02080	.01450	-.01900	.02270	.00000	.00000	.00930
3.480	2.000	-.01040	.01140	-.02010	.02530	.00000	.00000	.00980
3.480	4.000	.00060	.00720	-.01310	.02030	.00000	.00000	.00890
3.480	5.000	.00690	.00460	-.00790	.01610	.00000	.00000	.00830
3.480	6.000	.01400	.00140	-.00140	.01130	.00000	.00000	.00790
3.480	8.000	.03080	-.00880	.00860	.00390	.00000	.00000	.00780
3.480	10.000	.05140	-.01760	.01430	-.00550	.00000	.00000	.00860
GRADIENT		.00611	-.00223	-.00236	.00236	.00000	.00000	.00001

RUN NO. 4052/ 0 RIVL = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07620	.04230	.01810	-.00420	.00000	.00000	.00350
4.960	-8.000	-.06260	.03590	.01550	-.00460	.00000	.00000	.00370
4.960	-6.000	-.04800	.02830	.00950	-.00150	.00000	.00000	.00330
4.960	-4.000	-.04120	.02470	.00560	.00120	.00000	.00000	.00320
4.960	-2.000	-.03900	.02130	.00070	.00530	.00000	.00000	.00350
4.960	.000	-.02450	.01720	-.00830	.01280	.00000	.00000	.00390
4.960	.000	-.01750	.01610	-.01090	.01580	.00000	.00000	.00400
4.960	2.000	-.00780	.01160	-.00820	.01410	.00000	.00000	.00400
4.960	4.000	.00330	.00400	-.00310	.00920	.00000	.00000	.00380
4.960	5.000	.01220	.00000	.00000	.00660	.00000	.00000	.00370
4.960	6.000	.01900	-.00370	.00290	.00450	.00000	.00000	.00350
4.960	8.000	.03250	-.01060	.00900	.00180	.00000	.00000	.00320
4.960	10.000	.04580	-.01650	.01510	.00100	.00000	.00000	.00290
GRADIENT		.00313	-.00226	-.00048	.00050	.00000	.00000	.00004

MSFC 970 (1315F) (S3/2) (C3) (T9) (S3/2)

(R33R04) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 SREF = 5.3130 IN.
 SCALE = .0040
 XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

PARAMETRIC DATA

BETA = .000
 COAFTG = 400.000
 DELTAZ = .290
 RUDDER = .000
 X-SRS = .000
 CR3INC = -.500
 SPACER = .000
 SPADTA = .000
 SPAGAP = .000

RUN NO. 4010/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.600	-10.000	-.03220	.01120	.02760	-.01230	.00000	.00000	.03170
.600	-8.000	-.03890	.00710	.00640	.00030	.00000	.00000	.02940
.600	-6.000	-.02390	.00060	-.01130	.01070	.00000	.00000	.02740
.600	-5.000	-.01700	-.00240	-.01610	.01490	.00000	.00000	.02690
.600	-4.000	-.01110	-.00480	-.02350	.01900	.00000	.00000	.02630
.600	-2.000	-.00120	-.00880	-.02680	.02270	.00000	.00000	.02630
.600	.000	.00620	-.01090	-.02310	.02260	.00000	.00000	.02620
.600	2.000	.01390	-.01400	-.02100	.01930	.00000	.00000	.02600
.600	4.000	.02140	-.01690	-.01610	.01400	.00000	.00000	.02600
.600	5.000	.02530	-.01780	-.01230	.01030	.00000	.00000	.02630
.600	6.000	.02990	-.01910	-.00710	.00310	.00000	.00000	.02850
.600	8.000	.03870	-.02080	.00830	-.002670	.00000	.00000	.02990
.600	10.000	.04640	-.02110	.03010	-.02060	.00000	.00000	.03330
GRADIENT		.00413	-.00151	.00077	-.00055	.00000	.00000	.00015

RUN NO. 4009/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.797	-10.000	-.05270	.00970	.04470	-.01400	.00000	.00000	.02990
.797	-8.000	-.04040	.00710	.02020	-.00210	.00000	.00000	.02940
.797	-6.000	-.03010	.00460	-.00070	.00000	.00000	.00000	.02570
.797	-5.000	-.02450	.00270	-.00900	.01370	.00000	.00000	.02470
.797	-4.000	-.01800	-.00020	-.01530	.01750	.00000	.00000	.02440
.797	-2.000	-.00520	-.00640	-.02300	.02220	.00000	.00000	.02330
.797	.000	.00340	-.00930	-.02420	.02260	.00000	.00000	.02400
.797	2.000	.01280	-.01370	-.02020	.01900	.00000	.00000	.02480
.797	4.000	.02220	-.01760	-.01370	.01330	.00000	.00000	.02340
.797	5.000	.02640	-.01890	-.00930	.00990	.00000	.00000	.02500
.797	6.000	.03090	-.02010	-.00440	.00600	.00000	.00000	.02590
.797	8.000	.03990	-.02240	.01100	-.00420	.00000	.00000	.02460
.797	10.000	.04870	-.02430	.03420	-.01850	.00000	.00000	.02390
GRADIENT		.00501	-.00213	.00011	-.00047	.00000	.00000	.00015



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R03R04) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 400.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4008/ 0 RIVL = 6.33 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.903	-10.000	-.05370	.00910	.03950	-.01170	.00000	.00000	.02860
.903	-8.000	-.04280	.00830	.02640	-.00130	.00000	.00000	.02650
.903	-6.000	-.03170	.00570	.00480	.00980	.00000	.00000	.02360
.903	-5.000	-.02590	.00350	-.00380	.01310	.00000	.00000	.02300
.903	-4.000	-.01970	.00050	-.01060	.01660	.00000	.00000	.02430
.903	-2.000	-.00820	-.00430	-.02120	.02230	.00000	.00000	.02320
.903	.000	.00160	-.00860	-.02500	.02440	.00000	.00000	.02380
.903	2.000	.01290	-.01440	-.02230	.02190	.00000	.00000	.02440
.903	4.000	.02310	-.01890	-.01440	.01580	.00000	.00000	.02310
.903	5.000	.02760	-.02050	-.00890	.01190	.00000	.00000	.02370
.903	6.000	.03190	-.02200	-.00270	.00780	.00000	.00000	.02630
.903	8.000	.04150	-.02500	.01350	-.00210	.00000	.00000	.02530
.903	10.000	.05210	-.02840	.03510	-.01490	.00000	.00000	.03180
GRADIENT		.00534	-.00242	-.00048	-.00011	.00000	.00000	.00010

RUN NO. 4007/ 0 RIVL = 6.63 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	-.06370	.01270	.03950	-.00630	.00000	.00000	.02040
1.053	-8.000	-.05030	.01140	.01510	.00420	.00000	.00000	.01780
1.053	-6.000	-.03780	.00970	-.00900	.01600	.00000	.00000	.01610
1.053	-5.000	-.03160	.00820	-.01830	.02120	.00000	.00000	.01520
1.053	-4.000	-.02560	.00630	-.02490	.02550	.00000	.00000	.01430
1.053	-2.000	-.01400	.00220	-.03160	.03080	.00000	.00000	.01280
1.053	.000	-.00350	-.00250	-.03010	.03030	.00000	.00000	.01210
1.053	2.000	.00850	-.00930	-.02440	.02580	.00000	.00000	.01240
1.053	4.000	.01920	-.01490	-.01760	.02050	.00000	.00000	.01370
1.053	5.000	.02420	-.01710	-.01310	.01720	.00000	.00000	.01450
1.053	6.000	.03010	-.01980	-.00720	.01390	.00000	.00000	.01500
1.053	8.000	.04220	-.02510	.00940	.00220	.00000	.00000	.01690
1.053	10.000	.05430	-.02980	.03300	-.01150	.00000	.00000	.01990
GRADIENT		.00559	-.00260	.00077	-.00036	.00000	.00000	-.00007

NSFC 570 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(M83R04) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .290 RUDDER = .000
 X-SGS = .000 CRBINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4006/ 0 R/V/L = 6.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.247	-10.000	-.07090	.01100	.04900	-.00900	.00000	.00000	.03290
1.247	-8.000	-.05230	.00690	.01940	.00320	.00000	.00000	.03370
1.247	-6.000	-.03650	.00390	-.00800	.01870	.00000	.00000	.02790
1.247	-5.000	-.03020	.00320	-.01690	.02470	.00000	.00000	.02670
1.247	-4.000	-.02500	.00310	-.02370	.03000	.00000	.00000	.02590
1.247	-2.000	-.01670	.00370	-.03440	.03590	.00000	.00000	.02390
1.247	.000	-.00960	.00220	-.03290	.03490	.00000	.00000	.02390
1.247	2.000	.00110	-.00150	-.02620	.02970	.00000	.00000	.02700
1.247	4.000	.01070	-.00520	-.01950	.02430	.00000	.00000	.02890
1.247	5.000	.01550	-.00690	-.01360	.02130	.00000	.00000	.02490
1.247	5.000	.02090	-.00970	-.00720	.01720	.00000	.00000	.02450
1.247	8.000	.03340	-.01300	.01110	.00710	.00000	.00000	.02820
1.247	10.000	.04800	-.01840	.03750	-.00340	.00000	.00000	.02400
GRADIENT		.00452	-.00105	.00067	-.00059	.00000	.00000	.00032

RUN NO. 4035/ 0 R/V/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.461	-10.000	-.07930	.01640	.03370	-.01290	.00000	.00000	.02990
1.461	-8.000	-.05500	.00790	.02390	.00450	.00000	.00000	.02690
1.461	-6.000	-.03870	.00410	-.00390	.01990	.00000	.00000	.02310
1.461	-5.000	-.03210	.00370	-.01550	.02650	.00000	.00000	.02500
1.461	-4.000	-.02630	.00400	-.02570	.03220	.00000	.00000	.02320
1.461	-2.000	-.01600	.00350	-.03540	.03860	.00000	.00000	.02390
1.461	.000	-.00690	.00150	-.03390	.03790	.00000	.00000	.02360
1.461	2.000	.00250	-.00130	-.02960	.03430	.00000	.00000	.02470
1.461	4.000	.01060	-.00260	-.02170	.02900	.00000	.00000	.02590
1.461	5.000	.01430	-.00280	-.01670	.02570	.00000	.00000	.02620
1.461	6.000	.01800	-.00300	-.01060	.02220	.00000	.00000	.02630
1.461	8.000	.02760	-.00420	.00730	.01260	.00000	.00000	.02720
1.461	10.000	.04050	-.00620	.03380	-.00110	.00000	.00000	.02920
GRADIENT		.00463	-.00076	.00027	-.00029	.00000	.00000	.00011

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) (O3) (T9) (S3/2)

(R83R04) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 400.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4038/ 0 RNVL = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.09920	.02810	.06060	-.03210	.00000	.00000	.02240
1.967	-8.000	-.06680	.01260	.04430	-.02160	.00000	.00000	.02050
1.967	-6.000	-.04230	.00340	.01940	-.00490	.00000	.00000	.02120
1.967	-5.000	-.03330	.00110	.00620	.00400	.00000	.00000	.02060
1.967	-4.000	-.02630	.00020	-.00620	.01280	.00000	.00000	.01930
1.967	-2.000	-.01480	-.00010	-.02170	.02310	.00000	.00000	.01950
1.967	.000	-.00660	.00030	-.02370	.03010	.00000	.00000	.02020
1.967	2.000	.00120	.00030	-.02410	.03030	.00000	.00000	.01830
1.967	4.000	.00910	.00040	-.01790	.02660	.00000	.00000	.01800
1.967	5.000	.01400	.00010	-.01220	.02300	.00000	.00000	.01890
1.967	6.000	.02100	-.00190	-.00450	.01790	.00000	.00000	.01970
1.967	8.000	.03760	-.00640	.01590	.00490	.00000	.00000	.02130
1.967	10.000	.03660	-.01020	.04330	-.01070	.00000	.00000	.02230
GRADIENT		.00456	-.00004	-.00139	.00178	.00000	.00000	-.00019

RUN NO. 4049/ 0 RNVL = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.09910	.04490	.03570	-.01570	.00000	.00000	.01310
2.990	-8.000	-.08020	.03580	.03070	-.01500	.00000	.00000	.01350
2.990	-6.000	-.05980	.02490	.01960	-.00930	.00000	.00000	.01150
2.990	-5.000	-.04890	.02000	.01190	-.00270	.00000	.00000	.01040
2.990	-4.000	-.04020	.01610	.00230	.00480	.00000	.00000	.00970
2.990	-.02640	-.02640	.01130	-.01470	.01910	.00000	.00000	.00990
2.990	.000	-.01520	.00920	-.02360	.02700	.00000	.00000	.01110
2.990	2.000	-.00430	.00540	-.02360	.02830	.00000	.00000	.01150
2.990	4.000	.00610	.00190	-.01640	.02350	.00000	.00000	.01090
2.990	5.000	.01180	.00010	-.01100	.01930	.00000	.00000	.01040
2.990	6.000	.01850	-.00170	-.00440	.01420	.00000	.00000	.01040
2.990	8.000	.03600	-.00970	.00970	.00340	.00000	.00000	.01030
2.990	10.000	.03940	-.02410	.02480	-.00760	.00000	.00000	.00990
GRADIENT		.00592	-.00187	-.00230	.00226	.00000	.00000	.00000

HSFC 570 (1A31F) (S3/2)/(C31)/(T91)/(S3/2)

(R83R04) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 PRF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 400.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 CRGINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4050/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
3.480	-10.000	-1.0000	.05930	.02840	-.01040	.00000	.00000	.01070
3.480	-8.000	-.08190	.04200	.02270	-.00990	.00000	.00000	.01070
3.480	-6.000	-.06350	.03270	.01550	-.00310	.00000	.00000	.00960
3.480	-5.000	-.04410	.02790	.00990	-.00130	.00000	.00000	.00920
3.480	-4.000	-.04460	.02280	.00200	.00440	.00000	.00000	.00910
3.480	-2.000	-.02910	.01950	-.01270	.01640	.00000	.00000	.00970
3.480	.000	-.01910	.01310	-.02060	.02360	.00000	.00000	.01020
3.480	2.000	-.00690	.00970	-.01990	.02450	.00000	.00000	.00930
3.480	4.000	.00450	.00390	-.01270	.01930	.00000	.00000	.00920
3.480	5.000	.01050	.00150	-.00760	.01530	.00000	.00000	.00900
3.480	6.000	.01700	-.00050	-.00110	.01010	.00000	.00000	.00910
3.480	8.000	.03420	-.00960	.00940	.00210	.00000	.00000	.00900
3.480	10.000	.05770	-.02290	.01550	-.00190	.00000	.00000	.00710
GRADIENT		.00627	-.00245	-.00179	.00176	.00000	.00000	-.00312

RUN NO. 4051/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
4.960	-10.000	-.07170	.03930	.01430	-.00060	.00000	.00000	.00360
4.960	-8.000	-.05690	.03300	.01170	-.00120	.00000	.00000	.00410
4.960	-6.000	-.04490	.02370	.00390	.00210	.00000	.00000	.00420
4.960	-5.000	-.03810	.02220	.00200	.00490	.00000	.00000	.00430
4.960	-4.000	-.03210	.01900	-.00270	.00990	.00000	.00000	.00410
4.960	-2.000	-.02200	.01550	-.01070	.01530	.00000	.00000	.00420
4.960	.000	-.01360	.01310	-.01250	.01690	.00000	.00000	.00410
4.960	2.000	-.00290	.00730	-.00870	.01390	.00000	.00000	.00390
4.960	4.000	.01020	-.00060	-.00340	.00910	.00000	.00000	.00370
4.960	5.000	.01700	-.00450	-.00060	.00670	.00000	.00000	.00350
4.960	6.000	.02400	-.00940	.00240	.00450	.00000	.00000	.00290
4.960	8.000	.03790	-.01560	.00930	.00070	.00000	.00000	.00210
4.960	10.000	.05200	-.02240	.01710	-.00220	.00000	.00000	.00000
GRADIENT		.00537	-.00254	-.00013	.00004	.00000	.00000	-.00005

MSFC 370 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(R93R03) (21 SEP 73)

REFERENCE DATA

SREF = .0720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 SREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 400.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = .900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4011/ 1 RW/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.05380	.01280	.02540	-.00920	.00000	.00000	.03700
.599	-8.000	-.04120	.00900	.00480	.00310	.00000	.00000	.03380
.599	-6.000	-.02730	.00280	-.01330	.01410	.00000	.00000	.03080
.599	-5.000	-.02040	-.00030	-.02080	.01870	.00000	.00000	.03010
.599	-4.000	-.01350	-.00320	-.02680	.02300	.00000	.00000	.03050
.599	-2.000	-.00260	-.00730	-.03200	.02790	.00000	.00000	.02960
.599	.000	.00400	-.00930	-.02940	.02740	.00000	.00000	.02910
.599	2.000	.01200	-.01290	-.02510	.02420	.00000	.00000	.02910
.599	4.000	.02000	-.01570	-.02100	.01990	.00000	.00000	.03200
.599	5.000	.02370	-.01660	-.01770	.01660	.00000	.00000	.03330
.599	6.000	.02750	-.01750	-.01330	.01230	.00000	.00000	.03380
.599	8.000	.03590	-.01980	.00140	.00120	.00000	.00000	.03430
.599	10.000	.04530	-.01930	.02450	-.01320	.00000	.00000	.03530
GRADIENT		.00427	-.00158	.00059	-.00034	.00000	.00000	.00023

RUN NO. 4012/ 1 RW/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.797	-10.000	-.05220	.00970	.04230	-.01080	.00000	.00000	.03170
.797	-8.000	-.04110	.00760	.01790	.00120	.00000	.00000	.02990
.797	-6.000	-.02930	.00400	-.00310	.01240	.00000	.00000	.02870
.797	-5.000	-.02340	.00180	-.01160	.01700	.00000	.00000	.02810
.797	-4.000	-.01770	-.00050	-.01910	.02190	.00000	.00000	.02740
.797	-2.000	-.00600	-.00390	-.02600	.02600	.00000	.00000	.02500
.797	.000	.00310	-.00920	-.02730	.02660	.00000	.00000	.02530
.797	2.000	.01220	-.01350	-.02320	.02320	.00000	.00000	.02630
.797	4.000	.02060	-.01680	-.01640	.01730	.00000	.00000	.02760
.797	5.000	.02460	-.01790	-.01190	.01350	.00000	.00000	.02840
.797	6.000	.02900	-.01930	-.00660	.00940	.00000	.00000	.02920
.797	8.000	.03780	-.02160	.00900	-.00110	.00000	.00000	.03030
.797	10.000	.04620	-.02280	.03160	-.01470	.00000	.00000	.03090
GRADIENT		.00477	-.00199	.00012	-.00042	.00000	.00000	.00003

MSFC 370 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)

(093705) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 400.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBTIC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4013/ 1 RM/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.05600	.01110	.03020	-.01120	.00000	.00000	.03000
.899	-8.000	-.04510	.00990	.02630	-.00030	.00000	.00000	.02730
.899	-6.000	-.03420	.00750	.00390	.01050	.00000	.00000	.02370
.899	-5.000	-.02920	.00530	-.00500	.01510	.00000	.00000	.02550
.899	-4.000	-.02170	.00220	-.01200	.01960	.00000	.00000	.02570
.899	-2.000	-.01090	-.00230	-.02250	.02430	.00000	.00000	.02570
.899	.000	-.00120	-.00630	-.02640	.02630	.00000	.00000	.02570
.899	2.000	.01050	-.01270	-.02400	.02440	.00000	.00000	.02640
.899	4.000	.02080	-.01710	-.01590	.01960	.00000	.00000	.02710
.899	5.000	.02510	-.01950	-.01100	.01470	.00000	.00000	.02770
.899	6.000	.02970	-.02020	-.00430	.01010	.00000	.00000	.02790
.899	8.000	.03890	-.02320	.01240	-.00030	.00000	.00000	.02830
.899	10.000	.04900	-.02540	.03360	-.01270	.00000	.00000	.03320
GRADIENT	.00333	-.00241	-.00037	-.00002	-.00002	.00000	.00000	.00019

RUN NO. 4015/ 1 RM/L = 5.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.06750	.01590	.04170	-.00750	.00000	.00000	.02350
1.050	-8.000	-.05410	.01450	.01590	.00390	.00000	.00000	.02030
1.050	-6.000	-.04140	.01290	-.00870	.01650	.00000	.00000	.01710
1.050	-5.000	-.03540	.01150	-.01930	.02210	.00000	.00000	.01640
1.050	-4.000	-.02970	.00990	-.02510	.02670	.00000	.00000	.01550
1.050	-2.000	-.01940	.00610	-.03250	.03250	.00000	.00000	.01530
1.050	.000	-.00890	.00250	-.03140	.03220	.00000	.00000	.01500
1.050	2.000	.00360	-.00450	-.02550	.02790	.00000	.00000	.01540
1.050	4.000	.01370	-.01180	-.01920	.02150	.00000	.00000	.01510
1.050	5.000	.02110	-.01430	-.01340	.01910	.00000	.00000	.01640
1.050	6.000	.02690	-.01710	-.00710	.01370	.00000	.00000	.01550
1.050	8.000	.03870	-.02230	.00960	.00330	.00000	.00000	.01710
1.050	10.000	.05090	-.02710	.03220	-.00900	.00000	.00000	.01850
GRADIENT	.00565	-.00233	.00073	-.00054	-.00002	.00000	.00000	-.00002



MSFC 570 (1A31F) (S3/2) / (03) / (79) / (S3/2)

(R83R03) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4014/ 1 RV/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.07390	.01340	.05200	-.01020	.00000	.00000	.03460
1.250	-8.000	-.05470	.00910	.02120	.00410	.00000	.00000	.03240
1.250	-6.000	-.03980	.00640	-.00410	.01750	.00000	.00000	.03090
1.250	-5.000	-.03360	.00590	-.01500	.02380	.00000	.00000	.03050
1.250	-4.000	-.02820	.00570	-.02460	.02990	.00000	.00000	.03030
1.250	-2.000	-.01970	.00640	-.03520	.03760	.00000	.00000	.02860
1.250	.000	-.01310	.00650	-.03430	.03740	.00000	.00000	.02830
1.250	2.000	-.00240	.00180	-.02810	.03250	.00000	.00000	.03100
1.250	4.000	.00780	-.00260	-.02020	.02730	.00000	.00000	.03160
1.250	5.000	.01250	-.00410	-.01520	.02400	.00000	.00000	.03120
1.250	6.000	.01760	-.00590	-.00950	.02070	.00000	.00000	.03150
1.250	8.000	.03010	-.01070	.00810	.01130	.00000	.00000	.03190
1.250	10.000	.04600	-.01730	.03500	-.00220	.00000	.00000	.03130
GRADIENT		.00455	-.00102	.00034	-.00023	.00000	.00000	.00015

RUN NO. 4033/ 0 RV/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-10.000	-.08210	.01890	.05680	-.01580	.00000	.00000	.02990
1.459	-8.000	-.05640	.00910	.02690	.00200	.00000	.00000	.02730
1.459	-6.000	-.04090	.00620	-.00170	.01780	.00000	.00000	.02610
1.459	-5.000	-.03480	.00620	-.01390	.02450	.00000	.00000	.02540
1.459	-4.000	-.02910	.00650	-.02410	.03040	.00000	.00000	.02470
1.459	-2.000	-.01940	.00670	-.03410	.03720	.00000	.00000	.02370
1.459	.000	-.01200	.00650	-.03300	.03720	.00000	.00000	.02400
1.459	2.000	-.00250	.00340	-.02720	.03320	.00000	.00000	.02440
1.459	4.000	.00580	.00120	-.01960	.02780	.00000	.00000	.02530
1.459	5.000	.00940	.00090	-.01480	.02480	.00000	.00000	.02610
1.459	6.000	.01330	.00070	-.00960	.02180	.00000	.00000	.02690
1.459	8.000	.02340	-.00050	.00740	.01310	.00000	.00000	.02860
1.459	10.000	.03670	-.00350	.03440	.00000	.00000	.00000	.03070
GRADIENT		.00436	-.00060	.00030	-.00019	.00000	.00000	.00005

MSFC 570 (TA31F) (S3/2)/(C3)/(T9)/(S3/2)

(R03R05) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
 DELTAZ = .200 RUDDER = .000
 X-SFB = .000 CRBTIC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4040/ 0 RIVL = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.965	-10.000	-.10220	.03100	.06260	-.03420	.00000	.00000	.02300
1.965	-8.000	-.07020	.01370	.04730	-.02310	.00000	.00000	.01970
1.965	-6.000	-.04580	.00640	.02250	-.00540	.00000	.00000	.02030
1.965	-5.000	-.03680	.00420	.00920	.00090	.00000	.00000	.02000
1.965	-4.000	-.02980	.00340	-.00390	.01020	.00000	.00000	.01990
1.965	-2.000	-.01980	.00330	-.02010	.02360	.00000	.00000	.01740
1.965	.000	-.01180	.00340	-.02490	.02960	.00000	.00000	.01710
1.965	2.000	-.00390	.00340	-.02360	.03000	.00000	.00000	.01560
1.965	4.000	.00500	.00490	-.01720	.02620	.00000	.00000	.01720
1.965	5.000	.01030	.00430	-.01120	.02250	.00000	.00000	.01810
1.965	6.000	.01720	.00240	-.00220	.01640	.00000	.00000	.01970
1.965	8.000	.03440	-.00300	.01920	.00290	.00000	.00000	.02180
1.965	10.000	.05530	-.01020	.04390	-.01090	.00000	.00000	.02130
GRADIENT		.00449	.00012	-.00181	.00205	.00000	.00000	-.00021

RUN NO. 4048/ 0 RIVL = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	-.10130	.04690	.03740	-.01730	.00000	.00000	.01330
2.990	-8.000	-.08240	.03810	.03160	-.01580	.00000	.00000	.01330
2.990	-6.000	-.06120	.02700	.02100	-.00940	.00000	.00000	.01180
2.990	-5.000	-.05120	.02200	.01340	-.00390	.00000	.00000	.01130
2.990	-4.000	-.04230	.01900	.00350	.00390	.00000	.00000	.01140
2.990	-2.000	-.02830	.01340	-.01460	.01980	.00000	.00000	.01090
2.990	.000	-.01830	.01210	-.02320	.02690	.00000	.00000	.01140
2.990	2.000	-.00730	.00860	-.02370	.02870	.00000	.00000	.01150
2.990	4.000	.00370	.00470	-.01730	.02430	.00000	.00000	.01030
2.990	5.000	.00970	.00260	-.01180	.02010	.00000	.00000	.00990
2.990	6.000	.01640	.00050	-.00430	.01440	.00000	.00000	.00980
2.990	8.000	.03410	-.00770	.00950	.00380	.00000	.00000	.01010
2.990	10.000	.05790	-.02210	.02090	-.00470	.00000	.00000	.01060
GRADIENT		.00599	-.00178	-.00253	.00245	.00000	.00000	-.00012

DATE 03 NOV 74

TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1131F) (53/2) / (03) / (19) / (53/2)

(103R05) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 400.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4047/ 0 RV/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10370	.05470	.02990	-.01180	.00000	.00000	.01050
3.480	-8.000	-.08330	.04370	.02390	-.01020	.00000	.00000	.01040
3.480	-6.000	-.06620	.03580	.01610	-.00600	.00000	.00000	.01010
3.480	-5.000	-.05660	.03070	.01040	-.00210	.00000	.00000	.00990
3.480	-4.000	-.04700	.02550	.00290	.00340	.00000	.00000	.00940
3.480	-2.000	-.03140	.01850	-.01180	.01560	.00000	.00000	.01010
3.480	.000	-.02120	.01610	-.01970	.02320	.00000	.00000	.01020
3.480	2.000	-.01030	.01240	-.01970	.02430	.00000	.00000	.00950
3.480	4.000	.00150	.00750	-.01280	.01910	.00000	.00000	.00910
3.480	5.000	.00780	.00500	-.00740	.01490	.00000	.00000	.00750
3.480	6.000	.01400	.00300	-.00020	.00970	.00000	.00000	.00750
3.480	8.000	.03110	-.00310	.01100	.00150	.00000	.00000	.00770
3.480	10.000	.05530	-.01950	.01650	-.00270	.00000	.00000	.00760
GRADIENT		.00620	-.00236	-.00166	.00184	.00000	.00000	-.00020

RUN NO. 4046/ 0 RV/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07660	.04340	.01730	-.00230	.00000	.00000	.00350
4.960	-8.000	-.06270	.03700	.01260	-.00210	.00000	.00000	.00400
4.960	-6.000	-.04860	.02970	.00560	.00160	.00000	.00000	.00400
4.960	-5.000	-.04180	.02630	.00160	.00430	.00000	.00000	.00390
4.960	-4.000	-.03330	.02310	-.00260	.00650	.00000	.00000	.00390
4.960	-2.000	-.02310	.01920	-.01090	.01490	.00000	.00000	.00390
4.960	.000	-.01730	.01700	-.01190	.01600	.00000	.00000	.00370
4.960	2.000	-.00640	.01080	-.00760	.01280	.00000	.00000	.00370
4.960	4.000	.00710	.00290	-.00240	.00800	.00000	.00000	.00350
4.960	5.000	.01390	-.00040	.00040	.00540	.00000	.00000	.00360
4.960	6.000	.02030	-.00350	.00390	.00290	.00000	.00000	.00340
4.960	8.000	.03210	-.00840	.01240	-.00150	.00000	.00000	.00290
4.960	10.000	.04250	-.01170	.02300	-.00350	.00000	.00000	.00210
GRADIENT		.00539	-.00257	.00001	-.00002	.00000	.00000	-.00003

(R83R06) (21 SEP 73)

NSFC 570(1A31F)(S3/2)/(G3)/(T9)/(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 400.000
DELTAZ = .290 RUDDER = .000
X-SRS = .000 CRBINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4030/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.03680	.01350	.02610	-.01200	.00000	.00000	.03340
.599	-9.000	-.04390	.01180	.00710	.00040	.00000	.00000	.03160
.599	-8.000	-.02900	.02490	-.01060	.01150	.00000	.00000	.02920
.599	-5.000	-.02220	.00170	-.01790	.01620	.00000	.00000	.02790
.599	-4.000	-.01660	-.00030	-.02410	.02040	.00000	.00000	.02710
.599	-2.000	-.00750	-.00320	-.02850	.02310	.00000	.00000	.02540
.599	.000	.00040	-.00390	-.02590	.02430	.00000	.00000	.02470
.599	2.000	.00840	-.00390	-.02130	.02080	.00000	.00000	.02540
.599	4.000	.01680	-.01310	-.01680	.01610	.00000	.00000	.02940
.599	5.000	.02090	-.01450	-.01360	.01310	.00000	.00000	.03050
.599	6.000	.02450	-.01490	-.00990	.00950	.00000	.00000	.03020
.599	8.000	.03240	-.01610	.00290	.00000	.00000	.00000	.03150
.599	10.000	.04140	-.01790	.02270	-.01260	.00000	.00000	.03600
GRADIENT		.00423	-.00161	.00072	-.00046	.00000	.00000	.00027

RUN NO. 4029/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.800	-10.000	-.05710	.01480	.04420	-.01310	.00000	.00000	.02970
.800	-9.000	-.04610	.01240	.01980	-.00070	.00000	.00000	.02700
.800	-6.000	-.03440	.00870	-.00100	.01060	.00000	.00000	.02610
.800	-5.000	-.02870	.00650	-.00920	.01520	.00000	.00000	.02600
.800	-4.000	-.02340	.00450	-.01560	.01900	.00000	.00000	.02610
.800	-2.000	-.01190	-.00030	-.02430	.02420	.00000	.00000	.02390
.800	.000	.00250	-.00390	-.02590	.02500	.00000	.00000	.02340
.800	2.000	.00660	-.00820	-.02300	.02290	.00000	.00000	.02390
.800	4.000	.01570	-.01210	-.01990	.01710	.00000	.00000	.02330
.800	5.000	.02010	-.01360	-.01100	.01320	.00000	.00000	.02530
.800	6.000	.02430	-.01500	-.00630	.00960	.00000	.00000	.02540
.800	8.000	.03340	-.01780	.00790	.00920	.00000	.00000	.02900
.800	10.000	.04340	-.02100	.02950	-.01220	.00000	.00000	.03430
GRADIENT		.00486	-.00203	-.00004	-.00022	.00000	.00000	-.00005



MSFC 570 (1A31F) (S3/21) (C3) / (T9) / (63/2)

(M03R06) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONFIG = 400.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 SRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4026/ 0 RV/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.05910	.01470	.05220	-.01310	.00000	.00000	.02970
.901	-8.000	-.04660	.01210	.02610	-.00200	.00000	.00000	.02700
.901	-6.000	-.03680	.01040	.00800	.00990	.00000	.00000	.02500
.901	-5.000	-.03170	.00860	-.00310	.01350	.00000	.00000	.02460
.901	-4.000	-.02590	.00630	-.01090	.01760	.00000	.00000	.02460
.901	-2.000	-.01540	.00190	-.02190	.02360	.00000	.00000	.02510
.901	.000	-.00370	-.00220	-.02310	.02340	.00000	.00000	.02370
.901	2.000	.00570	-.00820	-.02350	.02420	.00000	.00000	.02390
.901	4.000	.01580	-.01280	-.01680	.01940	.00000	.00000	.02650
.901	5.000	.02030	-.01460	-.01140	.01570	.00000	.00000	.02710
.901	6.000	.02540	-.01680	-.00500	.01120	.00000	.00000	.02820
.901	8.000	.03510	-.02030	.01150	.00100	.00000	.00000	.02990
.901	10.000	.04390	-.02220	.03280	-.01050	.00000	.00000	.03020
GRADIENT		.00521	-.00237	-.00076	.00022	.00000	.00000	.00024

RUN NO. 4026/ 0 RV/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.031	-10.000	-.07130	.01950	.04530	-.01120	.00000	.00000	.01950
1.031	-8.000	-.05730	.01760	.01910	.00070	.00000	.00000	.01740
1.031	-6.000	-.04410	.01550	-.00570	.01360	.00000	.00000	.01590
1.031	-5.000	-.03830	.01430	-.01530	.01930	.00000	.00000	.01520
1.031	-4.000	-.03300	.01320	-.02230	.02410	.00000	.00000	.01460
1.031	-2.000	-.02210	.00960	-.03080	.03090	.00000	.00000	.01350
1.031	.000	-.01240	.00580	-.03020	.03120	.00000	.00000	.01330
1.031	2.000	.00030	-.00200	-.02470	.02740	.00000	.00000	.01340
1.031	4.000	.01260	-.00930	-.01720	.02130	.00000	.00000	.01460
1.031	5.000	.01810	-.01210	-.01230	.01750	.00000	.00000	.01510
1.031	6.000	.02360	-.01490	-.00660	.01340	.00000	.00000	.01550
1.031	8.000	.03520	-.02010	.00900	.00360	.00000	.00000	.01650
1.031	10.000	.04750	-.02470	.03090	-.00790	.00000	.00000	.01700
GRADIENT		.00566	-.00272	.00053	-.00030	.00000	.00000	.00000

MSFC 570 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R03R06) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 400.000
DELTAZ = .280 RUDDER = .000
X-SRB = .000 CARBINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4027/ 0 RM/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.250	-10.000	-.07750	.01700	.05370	-.01310	.00000	.00000	.03410
1.250	-8.000	-.05890	.01280	.02500	.00590	.00000	.00000	.03220
1.250	-6.000	-.04350	.00990	-.00130	.01480	.00000	.00000	.03050
1.250	-5.000	-.03740	.00940	-.01240	.02130	.00000	.00000	.03030
1.250	-4.000	-.03250	.00940	-.02170	.02720	.00000	.00000	.03000
1.250	-2.000	-.02390	.00990	-.03320	.03610	.00000	.00000	.02930
1.250	.000	-.01800	.01060	-.03370	.03730	.00000	.00000	.02910
1.250	2.000	-.00560	.00480	-.02420	.03280	.00000	.00000	.03190
1.250	4.000	.00450	-.00040	-.02090	.02790	.00000	.00000	.03300
1.250	5.000	.00900	-.00180	-.01600	.02510	.00000	.00000	.03270
1.250	6.000	.01350	-.00300	-.01010	.02190	.00000	.00000	.03220
1.250	8.000	.02470	-.00640	.00590	.01320	.00000	.00000	.03200
1.250	10.000	.03920	-.01140	.03150	.00220	.00000	.00000	.03290
GRADIENT		.00461	-.00117	-.00005	.00016	.00000	.00000	.00030

RUN NO. 4031/ 0 RM/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.455	-10.000	-.08500	.02080	.05980	-.01960	.00000	.00000	.02990
1.455	-8.000	-.06060	.01230	.03050	-.00140	.00000	.00000	.02680
1.455	-6.000	-.04400	.00860	.00160	.01490	.00000	.00000	.02550
1.455	-5.000	-.03740	.00820	-.01090	.02210	.00000	.00000	.02520
1.455	-4.000	-.03170	.00850	-.02170	.02840	.00000	.00000	.02490
1.455	-2.000	-.02330	.00980	-.03200	.03540	.00000	.00000	.02450
1.455	.000	-.01700	.01140	-.03220	.03560	.00000	.00000	.02360
1.455	2.000	-.00730	.00800	-.02520	.03240	.00000	.00000	.02520
1.455	4.000	.00170	.00490	-.01840	.02730	.00000	.00000	.02840
1.455	5.000	.00560	.00440	-.01370	.02470	.00000	.00000	.02940
1.455	6.000	.00910	.00460	-.00780	.02180	.00000	.00000	.02770
1.455	8.000	.02010	.00220	.00960	.01290	.00000	.00000	.02750
1.455	10.000	.03690	-.00460	.03170	-.00030	.00000	.00000	.02990
GRADIENT		.00423	-.00041	.00012	.00003	.00000	.00000	.00037

NSFC 570 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)

(R63R06) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 400.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4042/ 0 RN/L = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.000	-10.450	.03310	.06420	-.03590	.00000	.00000	.02440
1.966	-6.000	-.07430	.01960	.04870	-.02660	.00000	.00000	.02050
1.966	-6.000	-.04950	.01010	.02410	-.01000	.00000	.00000	.01950
1.966	-5.000	-.04010	.00740	.01100	-.00100	.00000	.00000	.01960
1.966	-4.000	-.03270	.00600	-.00170	.00790	.00000	.00000	.01730
1.966	-2.000	-.02130	.00530	-.01790	.02130	.00000	.00000	.01560
1.966	.000	-.01490	.00810	-.02300	.02810	.00000	.00000	.01590
1.966	2.000	-.00770	.00930	-.02230	.02990	.00000	.00000	.01670
1.966	4.000	.00050	.00950	-.01620	.02560	.00000	.00000	.01820
1.966	5.000	.00560	.00920	-.01010	.02200	.00000	.00000	.01930
1.966	6.000	.01190	.00780	-.00050	.01690	.00000	.00000	.02070
1.966	6.000	.02960	.00160	.02130	.00240	.00000	.00000	.02250
1.966	10.000	.05450	-.00910	.04470	-.01100	.00000	.00000	.02250
GRADIENT		.00432	.00034	-.00191	.00224	.00000	.00000	.00010

RUN NO. 4043/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10470	.05050	.03990	-.01980	.00000	.00000	.01320
2.990	-6.000	-.06520	.04140	.03240	-.01710	.00000	.00000	.01270
2.990	-6.000	-.06420	.03930	.02230	-.01090	.00000	.00000	.01120
2.990	-5.000	-.05410	.02510	.01500	-.00540	.00000	.00000	.01090
2.990	-4.000	-.04450	.02060	.00460	.00270	.00000	.00000	.01150
2.990	-2.000	-.03050	.01600	-.01340	.01790	.00000	.00000	.01230
2.990	.000	-.02070	.01510	-.02280	.02660	.00000	.00000	.01220
2.990	2.000	-.01120	.01270	-.02320	.02830	.00000	.00000	.01150
2.990	4.000	.00000	.00870	-.01650	.02390	.00000	.00000	.01060
2.990	5.000	.00650	.00630	-.01090	.01960	.00000	.00000	.01020
2.990	6.000	.01390	.00350	-.00410	.01450	.00000	.00000	.00990
2.990	8.000	.03070	-.00310	.01300	.00160	.00000	.00000	.00960
2.990	10.000	.05050	-.01130	.03510	-.01470	.00000	.00000	.00960
GRADIENT		.00577	-.00165	-.00259	.00257	.00000	.00000	-.00010

MSFC 570 (1A31F) (S3/2) / (C31) / (T9) / (S3/2)

(R43R06) (21 SEP 73

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 400.000
DELTAZ = .240 RUDDER = .000
X-SRB = .000 CRBINC = 1.300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4044/ 0 RN/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.0660	.05930	.03210	-.01420	.00000	.00000	.01040
3.480	-8.000	-.08990	.03000	.02620	-.01220	.00000	.00000	.01000
3.480	-6.000	-.07060	.03990	.01940	-.00790	.00000	.00000	.01010
3.480	-5.000	-.06070	.03440	.01240	-.00390	.00000	.00000	.01000
3.480	-4.000	-.05060	.02890	.00430	.00220	.00000	.00000	.00940
3.480	-2.000	-.03490	.02170	-.01030	.01430	.00000	.00000	.00910
3.480	.000	-.02390	.01900	-.01940	.02300	.00000	.00000	.00930
3.480	2.000	-.01290	.01550	-.02020	.02470	.00000	.00000	.00930
3.480	4.000	-.00130	.01100	-.01100	.01940	.00000	.00000	.00910
3.480	5.000	.00490	.00860	-.00690	.01510	.00000	.00000	.00740
3.480	6.000	.01130	.00630	.00360	.00930	.00000	.00000	.00720
3.480	8.000	.02890	-.00180	.01260	.00070	.00000	.00000	.00720
3.480	10.000	.05240	-.01370	.01890	-.00400	.00000	.00000	.00750
GRADIENT		.00632	-.00237	-.00204	.00204	.00000	.00000	-.00020

RUN NO. 4045/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.08030	.04800	.01420	-.00070	.00000	.00000	.00340
4.960	-8.000	-.06610	.04040	.01340	-.00270	.00000	.00000	.00390
4.960	-6.000	-.05170	.03290	.00900	.00010	.00000	.00000	.00390
4.960	-5.000	-.04490	.02950	.00390	.00290	.00000	.00000	.00390
4.960	-4.000	-.03960	.02620	-.00140	.00730	.00000	.00000	.00390
4.960	-2.000	-.02930	.02190	-.00970	.01400	.00000	.00000	.00370
4.960	.000	-.01970	.01950	-.01210	.01590	.00000	.00000	.00360
4.960	2.000	-.00920	.01410	-.00900	.01360	.00000	.00000	.00370
4.960	4.000	.00390	.00590	-.00230	.00770	.00000	.00000	.00330
4.960	5.000	.01070	.00210	.00120	.00450	.00000	.00000	.00330
4.960	6.000	.01710	-.00100	.00310	.00190	.00000	.00000	.00310
4.960	8.000	.02890	-.00330	.01300	-.00130	.00000	.00000	.00300
4.960	10.000	.03900	-.00690	.02100	-.00220	.00000	.00000	.00310
GRADIENT		.00340	-.00260	-.00018	.00010	.00000	.00000	-.00000



MSFC 570 (1A31F) (S3/2) / (03) / (T9) / (S3/2)

(R83R07) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4105/ 0 RVL = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.602	-10.000	.01850	-.01930	-.00430	.01370	.00000	.00000	.03190
.602	-8.000	.01490	-.01690	-.00430	.01190	.00000	.00000	.02990
.602	-6.000	.01200	-.01500	-.00810	.01290	.00000	.00000	.02850
.602	-4.000	.00830	-.01210	-.01440	.01710	.00000	.00000	.02360
.602	-2.000	.00260	-.00790	-.02410	.02410	.00000	.00000	.02150
.602	.000	-.00160	-.00450	-.03160	.02990	.00000	.00000	.02790
.602	2.000	-.00810	-.00030	-.03890	.03310	.00000	.00000	.02960
.602	4.000	-.01430	.00370	-.04460	.03920	.00000	.00000	.02930
.602	6.000	-.02130	.00920	-.04900	.04260	.00000	.00000	.02910
.602	8.000	-.02800	.01240	-.05320	.04700	.00000	.00000	.02970
.602	10.000	-.03340	.01690	-.06190	.05210	.00000	.00000	.02990
GRADIENT		-.00279	.00196	-.00376	.00276	.00000	.00000	.00057

RUN NO. 4104/ 0 RVL = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	.01850	-.01930	-.00900	.01840	.00000	.00000	.02960
.799	-8.000	.01550	-.01730	-.00550	.01270	.00000	.00000	.03040
.799	-6.000	.01270	-.01550	-.00940	.01320	.00000	.00000	.02730
.799	-4.000	.00740	-.01130	-.01490	.01750	.00000	.00000	.02540
.799	-2.000	.00120	-.00620	-.02230	.02300	.00000	.00000	.02340
.799	.000	-.00710	.00010	-.02960	.02890	.00000	.00000	.02310
.799	2.000	-.01320	.00410	-.03660	.03380	.00000	.00000	.02300
.799	4.000	-.01920	.00760	-.04340	.03960	.00000	.00000	.02390
.799	6.000	-.02760	.01310	-.04900	.04390	.00000	.00000	.02760
.799	8.000	-.03650	.01870	-.05490	.04970	.00000	.00000	.02900
.799	10.000	-.04590	.02470	-.06240	.05430	.00000	.00000	.02940
GRADIENT		-.00336	.00240	-.00356	.00275	.00000	.00000	.00012

NSFC 370 (1A31F) (S3/2)/(03)/(T9)/(S3/2)

(093R07) (14 SEP 75)

REFERENCE DATA

SREF = .8720 SQ. IN XMRP = 2.5450 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = .000 CONF10 = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4103/ 0 RVL = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.895	-10.000	.01410	-.01630	-.01770	.02610	.00000	.00000	.02650
.895	-8.000	.01240	-.01540	-.01010	.01740	.00000	.00000	.02720
.895	-6.000	.01030	-.01380	-.01150	.01670	.00000	.00000	.02330
.895	-4.000	.00330	-.01020	-.01610	.01930	.00000	.00000	.02430
.895	-2.000	-.00200	-.00430	-.02200	.02350	.00000	.00000	.02400
.895	.000	-.00990	.00130	-.02980	.02830	.00000	.00000	.02490
.895	2.000	-.01710	.00690	-.03640	.03420	.00000	.00000	.02550
.895	4.000	-.02340	.01230	-.04320	.03990	.00000	.00000	.02630
.895	6.000	-.03290	.01690	-.04930	.04490	.00000	.00000	.02750
.895	8.000	-.04170	.02290	-.05650	.05090	.00000	.00000	.02990
.895	10.000	-.05280	.03000	-.06450	.05690	.00000	.00000	.03090
GRADIENT		-.00392	.00291	-.00343	.00260	.00000	.00000	.00027

RUN NO. 4102/ 0 RVL = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.045	-10.000	.01790	-.01790	-.02330	.03230	.00000	.00000	.01590
1.045	-8.000	.01250	-.01410	-.01690	.02600	.00000	.00000	.01590
1.045	-6.000	.00980	-.01280	-.01510	.02230	.00000	.00000	.01460
1.045	-4.000	.00640	-.01050	-.01720	.02260	.00000	.00000	.01420
1.045	-2.000	-.00180	-.00330	-.02420	.02700	.00000	.00000	.01290
1.045	.000	-.01090	.00420	-.03240	.03300	.00000	.00000	.01500
1.045	2.000	-.01800	.00920	-.04150	.04010	.00000	.00000	.01900
1.045	4.000	-.02560	.01460	-.05010	.04670	.00000	.00000	.02050
1.045	6.000	-.03450	.02090	-.05750	.05190	.00000	.00000	.02130
1.045	8.000	-.04370	.02690	-.06420	.05650	.00000	.00000	.02200
1.045	10.000	-.05400	.03370	-.07200	.06230	.00000	.00000	.02300
GRADIENT		-.00401	.00313	-.00415	.00306	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) (O3) / (T9) / (S3/2)

(R03R07) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SR9 = .000 CRBTNC = .500
 SPACER = .000 SPADTA = .000
 SPAGAP = .000

RUN NO. 4101/ 1 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	.01810	-.02130	-.02820	.03800	.00000	.00000	.02970
1.246	-8.000	.01180	-.01660	-.02400	.03330	.00000	.00000	.02990
1.246	-6.000	.00480	-.01110	-.02360	.03110	.00000	.00000	.03040
1.246	-4.000	-.00250	-.00510	-.02620	.03160	.00000	.00000	.02860
1.246	-2.000	-.01230	.00300	-.03350	.03700	.00000	.00000	.02600
1.246	.000	-.02160	.01000	-.03980	.04140	.00000	.00000	.02850
1.246	2.000	-.03120	.01650	-.04630	.04540	.00000	.00000	.03120
1.246	4.000	-.04180	.02390	-.05220	.04900	.00000	.00000	.03360
1.246	6.000	-.05360	.03190	-.05800	.05230	.00000	.00000	.03570
1.246	8.000	-.06760	.04110	-.06410	.05620	.00000	.00000	.03750
1.246	10.000	-.08440	.05190	-.07080	.06050	.00000	.00000	.03940
	GRADIENT	-.00487	.00356	-.00324	.00216	.00000	.00000	.00076

RUN NO. 4100/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.01720	-.01780	-.02830	.04110	.00000	.00000	.02900
1.465	-8.000	.01010	-.01230	-.02150	.03350	.00000	.00000	.02510
1.465	-6.000	.00420	-.00780	-.01980	.02960	.00000	.00000	.02390
1.465	-4.000	-.00320	-.00120	-.02290	.03080	.00000	.00000	.02370
1.465	-2.000	-.01160	.00620	-.02920	.03490	.00000	.00000	.02300
1.465	.000	-.02090	.01440	-.03570	.03920	.00000	.00000	.02150
1.465	2.000	-.02790	.01920	-.04330	.04440	.00000	.00000	.02510
1.465	4.000	-.03350	.02350	-.04930	.04800	.00000	.00000	.02860
1.465	6.000	-.04220	.02940	-.05530	.05160	.00000	.00000	.02940
1.465	8.000	-.05320	.03740	-.06110	.05520	.00000	.00000	.03090
1.465	10.000	-.06580	.04660	-.06650	.05810	.00000	.00000	.03280
	GRADIENT	-.00380	.00312	-.00335	.00219	.00000	.00000	.00059

MSFC 570 (1A31F) (S3/2) (03) (T9) (S3/2)

(R03R07) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CCAFTG = 400.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBTNC = .500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 4142/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.983	-10.000	.01720	-.01990	-.01310	.02960	.00000	.00000	.01590
1.983	-6.000	.00810	-.01130	-.01030	.02470	.00000	.00000	.01660
1.983	-6.000	.00210	-.00620	-.01030	.02220	.00000	.00000	.01590
1.983	-4.000	.00340	-.00160	-.01370	.02310	.00000	.00000	.01720
1.983	-2.000	-.00960	.00400	-.01630	.02490	.00000	.00000	.01690
1.983	.000	-.01630	.00930	-.02500	.02970	.00000	.00000	.01830
1.983	2.000	-.02030	.01270	-.03060	.03230	.00000	.00000	.01970
1.983	4.000	-.02490	.01570	-.03780	.03740	.00000	.00000	.02130
1.983	6.000	-.03220	.02130	-.04470	.04220	.00000	.00000	.02200
1.983	8.000	-.04090	.02830	-.05130	.04650	.00000	.00000	.02210
1.983	10.000	-.05230	.03810	-.05860	.05170	.00000	.00000	.02220
	GRADIENT	-.00268	.00216	-.00302	.00180	.00000	.00000	.00035

RUN NO. 4061/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.01060	-.01340	.00380	.00960	.00000	.00000	.00990
2.990	-6.000	.00600	-.01070	.00140	.01000	.00000	.00000	.01110
2.990	-6.000	.00190	-.00640	-.00400	.01270	.00000	.00000	.00940
2.990	-4.000	.00160	-.00330	-.01040	.01730	.00000	.00000	.00930
2.990	-2.000	-.00690	.00100	-.01710	.02260	.00000	.00000	.00920
2.990	.000	-.01410	.00770	-.02390	.02730	.00000	.00000	.01020
2.990	2.000	-.02130	.01470	-.02990	.03110	.00000	.00000	.01330
2.990	4.000	-.02830	.02110	-.03580	.03520	.00000	.00000	.01450
2.990	6.000	-.03510	.02710	-.04230	.04000	.00000	.00000	.01450
2.990	8.000	-.04160	.03330	-.04830	.04430	.00000	.00000	.01400
2.990	10.000	-.04790	.03940	-.05340	.04730	.00000	.00000	.01320
	GRADIENT	-.00339	.00312	-.00318	.00221	.00000	.00000	.00070

MSFC 970 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R03R07) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4062/ 0 RVL = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.00530	-.01030	.00590	.00760	.00000	.00000	.00790
3.480	-8.000	.00210	-.00670	.00300	.00830	.00000	.00000	.00940
3.480	-6.000	-.00120	-.00320	-.00250	.01150	.00000	.00000	.00910
3.480	-4.000	-.00460	-.00030	-.00870	.01600	.00000	.00000	.00820
3.480	-2.000	-.00950	.00440	-.01530	.02090	.00000	.00000	.00710
3.480	.000	-.01630	.01140	-.02190	.02540	.00000	.00000	.00630
3.480	2.000	-.02360	.01990	-.02830	.02970	.00000	.00000	.01100
3.480	4.000	-.02990	.02310	-.03490	.03440	.00000	.00000	.01130
3.480	6.000	-.03540	.03040	-.04130	.03910	.00000	.00000	.00960
3.480	8.000	-.04110	.03690	-.04750	.04360	.00000	.00000	.00770
3.480	10.000	-.04650	.04170	-.05340	.04750	.00000	.00000	.00930
GRADIENT		-.00324	.00326	-.00327	.00228	.00000	.00000	.00051

RUN NO. 4063/ 0 RVL = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	.00050	-.00460	.00650	.00300	.00000	.00000	.00390
4.960	-8.000	-.00180	-.00160	.00650	.00270	.00000	.00000	.00390
4.960	-6.000	-.00370	.00210	.00380	.00490	.00000	.00000	.00400
4.960	-4.000	-.00640	.00470	-.00080	.00870	.00000	.00000	.00420
4.960	-2.000	-.01060	.00770	-.00700	.01320	.00000	.00000	.00410
4.960	.000	-.01520	.01270	-.01420	.01870	.00000	.00000	.00410
4.960	2.000	-.02050	.01850	-.02210	.02510	.00000	.00000	.00370
4.960	4.000	-.02460	.02340	-.02970	.03130	.00000	.00000	.00330
4.960	6.000	-.02790	.02730	-.03640	.03690	.00000	.00000	.00290
4.960	8.000	-.03300	.03340	-.04290	.04150	.00000	.00000	.00200
4.960	10.000	-.03940	.04040	-.04900	.04630	.00000	.00000	.00000
GRADIENT		-.00211	.00241	-.00364	.00285	.00000	.00000	-.00005

NSFC 370 (IA31F) (S3/2) (O3) (T9) (S3/2)

(R83R08) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFTG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBTNC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4106/ 1 RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.03200	-.02750	-.00300	.01000	.00000	.00000	.03420
.900	-8.000	.02710	-.02310	.00000	.00660	.00000	.00000	.03140
.900	-6.000	.02460	-.02030	-.00040	.00630	.00000	.00000	.02950
.900	-4.000	.02450	-.01990	-.00360	.00910	.00000	.00000	.02790
.900	-2.000	.02410	-.01890	-.01010	.01350	.00000	.00000	.02660
.900	.000	.02390	-.01660	-.01700	.01910	.00000	.00000	.02570
.900	2.000	.02260	-.01370	-.02420	.02560	.00000	.00000	.02510
.900	4.000	.02170	-.01440	-.03180	.03230	.00000	.00000	.02690
.900	6.000	.02040	-.01290	-.03970	.03910	.00000	.00000	.02790
.900	8.000	.01730	-.00990	-.04630	.04900	.00000	.00000	.03030
.900	10.000	.01130	-.00460	-.05230	.05950	.00000	.00000	.03210
GRADIENT		-.00036	.00069	-.00332	.00303	.00000	.00000	-.00014

RUN NO. 4107/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	.02950	-.02760	-.00620	.01700	.00000	.00000	.02900
1.053	-8.000	.02640	-.02440	-.00250	.01250	.00000	.00000	.02390
1.053	-6.000	.02460	-.02190	-.00390	.01240	.00000	.00000	.02170
1.053	-4.000	.02400	-.02040	-.00850	.01340	.00000	.00000	.01920
1.053	-2.000	.02350	-.01890	-.01430	.01950	.00000	.00000	.01760
1.053	.000	.02270	-.01670	-.02040	.02420	.00000	.00000	.01740
1.053	2.000	.02300	-.01550	-.02730	.03030	.00000	.00000	.01750
1.053	4.000	.02360	-.01520	-.03480	.03740	.00000	.00000	.01860
1.053	6.000	.02170	-.01310	-.04210	.04410	.00000	.00000	.02110
1.053	8.000	.01810	-.00950	-.04910	.05010	.00000	.00000	.02260
1.053	10.000	.01090	-.00330	-.05620	.05620	.00000	.00000	.02310
GRADIENT		-.00006	.00069	-.00328	.00274	.00000	.00000	-.00006

MSFC 570 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(M83R08) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFC = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4108/ 0 RN/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.248	-10.000	.02190	-.02120	-.01300	.02910	.00000	.00000	.03690
1.248	-8.000	.01860	-.01500	-.01060	.02420	.00000	.00000	.03400
1.248	-6.000	.01480	-.01210	-.01040	.02250	.00000	.00000	.03170
1.248	-4.000	.01460	-.01060	-.01440	.02450	.00000	.00000	.03550
1.248	-2.000	.01280	-.00710	-.02000	.02840	.00000	.00000	.02990
1.248	.000	.01080	-.00330	-.02610	.03350	.00000	.00000	.02970
1.248	2.000	.01110	-.00230	-.03250	.03790	.00000	.00000	.03150
1.248	4.000	.01260	-.00290	-.03870	.04300	.00000	.00000	.03430
1.248	6.000	.01190	-.00170	-.04590	.04890	.00000	.00000	.03660
1.248	8.000	.00730	.00270	-.05320	.05530	.00000	.00000	.03790
1.248	10.000	.00390	.00830	-.06030	.06110	.00000	.00000	.03960
GRADIENT		-.00029	.00102	-.00305	.00232	.00000	.00000	.00047

RUN NO. 4099/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.464	-10.000	.02210	-.01680	-.01140	.02650	.00000	.00000	.02910
1.464	-8.000	.01480	-.01040	-.00640	.02150	.00000	.00000	.02670
1.464	-6.000	.01240	-.00640	-.00600	.02000	.00000	.00000	.02280
1.464	-4.000	.01340	-.00640	-.00870	.02130	.00000	.00000	.02300
1.464	-2.000	.01260	-.00410	-.01280	.02420	.00000	.00000	.02260
1.464	.000	.01090	-.00330	-.01550	.02790	.00000	.00000	.02260
1.464	2.000	.01190	.00010	-.02480	.03290	.00000	.00000	.02400
1.464	4.000	.01420	-.00090	-.03170	.03790	.00000	.00000	.02820
1.464	6.000	.01390	.00000	-.03860	.04350	.00000	.00000	.02990
1.464	8.000	.01180	.00150	-.04490	.04730	.00000	.00000	.02940
1.464	10.000	.00700	.00570	-.05120	.05180	.00000	.00000	.02860
GRADIENT		.00004	.00076	-.00290	.00210	.00000	.00000	.00059

MSFC 570(1A31F)(S3/2)/(C3)/(T9)/(S3/2)

(R83R08) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COARF = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = -.575
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4063/ 0 RNVL = 4.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	.03270	-.02090	.00760	.00730	.00000	.00000	.01070
2.990	-8.000	.02290	-.01160	.01070	.00350	.00000	.00000	.01140
2.990	-6.000	.01940	-.00720	.00990	.00410	.00000	.00000	.01190
2.990	-4.000	.01690	-.00360	.00390	.00930	.00000	.00000	.01110
2.990	-2.000	.01690	-.00430	-.00230	.01370	.00000	.00000	.01050
2.990	.000	.01470	-.00180	-.01030	.01940	.00000	.00000	.01130
2.990	2.000	.01370	.00040	-.01940	.02350	.00000	.00000	.01310
2.990	4.000	.01410	.00150	-.02690	.03090	.00000	.00000	.01350
2.990	6.000	.01360	.00300	-.03330	.03560	.00000	.00000	.01300
2.990	8.000	.01200	.00320	-.03990	.04030	.00000	.00000	.01220
2.990	10.000	.00990	.00770	-.04490	.04330	.00000	.00000	.01190
GRADIENT		-.00039	.00094	-.00392	.00284	.00000	.00000	.00037

RUN NO. 4064/ 0 RNVL = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	.03140	-.02030	.01010	.00390	.00000	.00000	.00690
3.480	-8.000	.02420	-.01330	.01300	.00090	.00000	.00000	.00790
3.480	-6.000	.01840	-.00790	.01160	.00200	.00000	.00000	.00870
3.480	-4.000	.01590	-.00330	.00630	.00630	.00000	.00000	.00940
3.480	-2.000	.01500	-.00370	-.00050	.01150	.00000	.00000	.00750
3.480	.000	.01410	-.00140	-.00970	.01710	.00000	.00000	.00910
3.480	2.000	.01390	.00090	-.01690	.02270	.00000	.00000	.01010
3.480	4.000	.01350	.00290	-.02320	.02750	.00000	.00000	.01110
3.480	6.000	.01360	.00360	-.02990	.03290	.00000	.00000	.01070
3.480	8.000	.01300	.00320	-.03690	.03690	.00000	.00000	.01000
3.480	10.000	.01240	.00710	-.04310	.04060	.00000	.00000	.00940
GRADIENT		-.00030	.00103	-.00377	.00266	.00000	.00000	.00040



MSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R63R09) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 JRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4111/ 0 RM/L = 6.22 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.03010	-.02700	.00190	.00380	.00000	.00000	.03000
.900	-8.000	.02520	-.02250	.00420	.00290	.00000	.00000	.02900
.900	-6.000	.02210	-.01930	.00280	.00320	.00000	.00000	.02720
.900	-4.000	.02120	-.01800	-.00200	.00660	.00000	.00000	.02560
.900	-2.000	.02020	-.01640	-.00870	.01210	.00000	.00000	.02460
.900	.000	.01850	-.01390	-.01650	.01980	.00000	.00000	.02470
.900	2.000	.01800	-.01240	-.02460	.02590	.00000	.00000	.02420
.900	4.000	.01750	-.01130	-.03180	.03250	.00000	.00000	.02460
.900	6.000	.01580	-.00940	-.03890	.03990	.00000	.00000	.02660
.900	8.000	.01230	-.00620	-.04580	.04470	.00000	.00000	.02940
.900	10.000	.00660	-.00120	-.05230	.03040	.00000	.00000	.02980
.900	GRADIENT	-.00048	.00097	-.00377	.00328	.00000	.00000	-.00012

RUN NO. 4110/ 0 RM/L = 6.98 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	.02750	-.02680	-.00200	.01250	.00000	.00000	.02170
1.050	-8.000	.02320	-.02230	.00010	.00970	.00000	.00000	.02050
1.050	-6.000	.02140	-.01970	-.00100	.00950	.00000	.00000	.01840
1.050	-4.000	.02080	-.01810	-.00370	.01270	.00000	.00000	.01650
1.050	-2.000	.02000	-.01630	-.01170	.01690	.00000	.00000	.01370
1.050	.000	.01840	-.01360	-.01810	.02190	.00000	.00000	.01640
1.050	2.000	.01730	-.01120	-.02530	.02840	.00000	.00000	.01740
1.050	4.000	.01780	-.01060	-.03300	.03540	.00000	.00000	.01860
1.050	6.000	.01750	-.00970	-.04070	.04230	.00000	.00000	.02030
1.050	8.000	.01300	-.00530	-.04830	.04990	.00000	.00000	.02100
1.050	10.000	.00580	.00090	-.05640	.05580	.00000	.00000	.02240
1.050	GRADIENT	-.00044	.00101	-.00341	.00284	.00000	.00000	.00030

WSFC 570(1A31F)(S3/2)/(O3)/(T9)/(S3/2)

(R43R09) (21 SEP 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CGAFC = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4109/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	.01950	-.02020	-.01310	.02750	.00000	.00000	.03320
1.248	-9.000	.01400	-.01330	-.00930	.02280	.00000	.00000	.03090
1.248	-8.000	.01130	-.00980	-.00650	.02060	.00000	.00000	.02920
1.248	-7.000	.01040	-.00790	-.01150	.02200	.00000	.00000	.02750
1.248	-6.000	.00850	-.00430	-.01740	.02620	.00000	.00000	.02840
1.248	-5.000	.00560	.00010	-.02410	.03130	.00000	.00000	.02940
1.248	-4.000	.00460	.00230	-.03100	.03670	.00000	.00000	.03040
1.248	-3.000	.00370	.00200	-.03770	.04210	.00000	.00000	.03200
1.248	-2.000	.00490	.00320	-.04310	.04930	.00000	.00000	.03430
1.248	-1.000	.00560	.00770	-.03290	.05490	.00000	.00000	.03610
1.248	0.000	.00450	.01240	-.05070	.06190	.00000	.00000	.03640
1.248	GRADIENT	-.00055	.00132	-.00329	.00253	.00000	.00000	.00055

RUN NO. 4098/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	.01720	-.01440	-.00890	.02470	.00000	.00000	.02790
1.467	-9.000	.01200	-.00810	-.00540	.02120	.00000	.00000	.02580
1.467	-8.000	.00920	-.00390	-.00560	.02040	.00000	.00000	.02190
1.467	-7.000	.00970	-.00350	-.00740	.02100	.00000	.00000	.02370
1.467	-6.000	.00920	-.00160	-.01100	.02300	.00000	.00000	.02330
1.467	-5.000	.00660	.00280	-.01720	.02740	.00000	.00000	.02280
1.467	-4.000	.00700	.00420	-.02400	.03260	.00000	.00000	.02360
1.467	-3.000	.00860	.00400	-.03100	.03800	.00000	.00000	.02650
1.467	-2.000	.00890	.00450	-.03790	.04310	.00000	.00000	.02760
1.467	-1.000	.00720	.00580	-.04470	.04710	.00000	.00000	.02910
1.467	0.000	.00290	.00960	-.05050	.05100	.00000	.00000	.03030
1.467	GRADIENT	-.00022	.00104	-.00301	.00218	.00000	.00000	.00029

MSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R03R09) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CNF16 = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4066/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.03210	-.02050	.00750	.00840	.00000	.00000	.01070
2.990	-8.000	.02230	-.01140	.01510	.00480	.00000	.00000	.01080
2.990	-6.000	.01710	-.00630	.00910	.00460	.00000	.00000	.01070
2.990	-4.000	.01520	-.00440	.00450	.00830	.00000	.00000	.01050
2.990	-2.000	.01420	-.00290	-.00220	.01390	.00000	.00000	.01020
2.990	.000	.01320	-.00040	-.01020	.01930	.00000	.00000	.01110
2.990	2.000	.01230	.00180	-.01850	.02520	.00000	.00000	.01270
2.990	4.000	.01190	.00370	-.02550	.03020	.00000	.00000	.01320
2.990	6.000	.01100	.00550	-.03230	.03490	.00000	.00000	.01290
2.990	8.000	.00960	.00810	-.03900	.03920	.00000	.00000	.01250
2.990	10.000	.00770	.01060	-.04380	.04190	.00000	.00000	.01220
GRADIENT		-.00044	.00104	-.00382	.00276	.00000	.00000	.00040

RUN NO. 4067/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.02990	-.01980	.01170	.00400	.00000	.00000	.00780
3.480	-8.000	.02320	-.01260	.01200	.00230	.00000	.00000	.00740
3.480	-6.000	.01790	-.00740	.01020	.00320	.00000	.00000	.00770
3.480	-4.000	.01420	-.00390	.00570	.00640	.00000	.00000	.00780
3.480	-2.000	.01240	-.00130	.00090	.01090	.00000	.00000	.00750
3.480	.000	.01260	.00040	-.00770	.01660	.00000	.00000	.00800
3.480	2.000	.01220	.00290	-.01600	.02240	.00000	.00000	.00960
3.480	4.000	.01150	.00540	-.02270	.02710	.00000	.00000	.01060
3.480	6.000	.01250	.00370	-.02980	.03180	.00000	.00000	.01050
3.480	8.000	.01180	.00730	-.03650	.03630	.00000	.00000	.00990
3.480	10.000	.01100	.00920	-.04200	.03980	.00000	.00000	.00910
GRADIENT		-.00028	.00114	-.00378	.00264	.00000	.00000	.00039

MSFC 370 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(R93R10) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COARFC = 400.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CR3INC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4112/ 0 RNL = 6.13 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	.02740	-.02500	.00640	.00180	.00000	.00000	.02490
.898	-8.000	.02200	-.01990	.00790	.00000	.00000	.00000	.02730
.898	-6.000	.01870	-.01630	.00690	.00010	.00000	.00000	.02670
.898	-4.000	.01910	-.01590	.00160	.00330	.00000	.00000	.02570
.898	-2.000	.01780	-.01390	-.00340	.00910	.00000	.00000	.02450
.898	.000	.01650	-.01150	-.01350	.01610	.00000	.00000	.02470
.898	2.000	.01580	-.00960	-.02160	.02310	.00000	.00000	.02440
.898	4.000	.01510	-.00840	-.02860	.02940	.00000	.00000	.02390
.898	6.000	.01450	-.00730	-.03370	.03590	.00000	.00000	.02350
.898	8.000	.01220	-.00460	-.04320	.04250	.00000	.00000	.02770
.898	10.000	.00700	.00310	-.05010	.04950	.00000	.00000	.02490
GRADIENT		-.00041	.00097	-.00393	.00331	.00000	.00000	-.00019

RUN NO. 4113/ 0 RNL = 6.33 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	.02690	-.02670	.00710	.00430	.00000	.00000	.02020
1.049	-8.000	.02290	-.02220	.00900	.00100	.00000	.00000	.01940
1.049	-6.000	.02090	-.01930	.00730	.00120	.00000	.00000	.01900
1.049	-4.000	.01990	-.01730	.00270	.00430	.00000	.00000	.01660
1.049	-2.000	.01970	-.01550	-.00370	.00930	.00000	.00000	.01590
1.049	.000	.01910	-.01330	-.01090	.01540	.00000	.00000	.01630
1.049	2.000	.01930	-.01100	-.01980	.02230	.00000	.00000	.01790
1.049	4.000	.01920	-.01040	-.02720	.03010	.00000	.00000	.01990
1.049	6.000	.02000	-.01040	-.03300	.03700	.00000	.00000	.02130
1.049	8.000	.01940	-.00830	-.04230	.04360	.00000	.00000	.02150
1.049	10.000	.01410	-.00390	-.04990	.04980	.00000	.00000	.02190
GRADIENT		-.00013	.00091	-.00374	.00324	.00000	.00000	.00044

MSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2)

(R03R1D) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4114/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	.01720	-.01830	-.01080	.02490	.00000	.00000	.03330
1.250	-8.000	.01030	-.01020	-.00450	.01830	.00000	.00000	.03170
1.250	-6.000	.00830	-.00700	-.00430	.01630	.00000	.00000	.02950
1.250	-4.000	.00770	-.00540	-.00810	.01870	.00000	.00000	.02970
1.250	-2.000	.00390	-.00190	-.01440	.02350	.00000	.00000	.02920
1.250	.000	.00350	.00210	-.02200	.02940	.00000	.00000	.03000
1.250	2.000	.00240	.00460	-.02900	.03490	.00000	.00000	.03110
1.250	4.000	.00230	.00570	-.03610	.04080	.00000	.00000	.03260
1.250	6.000	.00200	.00630	-.04430	.04750	.00000	.00000	.03490
1.250	8.000	-.00020	.00900	-.05190	.05350	.00000	.00000	.03650
1.250	10.000	-.00510	.01370	-.05950	.05920	.00000	.00000	.03640
1.250	GRADIENT	-.00071	.00143	-.00353	.00278	.00000	.00000	.00049

RUN NO. 4097/ 0 RN/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.01230	-.00990	-.00400	.02070	.00000	.00000	.02970
1.465	-8.000	.00830	-.00430	-.00170	.01760	.00000	.00000	.02600
1.465	-6.000	.00500	.00000	-.00240	.01780	.00000	.00000	.02290
1.465	-4.000	.00520	.00040	-.00470	.01900	.00000	.00000	.02430
1.465	-2.000	.00460	.00260	-.00850	.02160	.00000	.00000	.02440
1.465	.000	.00310	.00610	-.01560	.02680	.00000	.00000	.02390
1.465	2.000	.00290	.00820	-.02260	.03180	.00000	.00000	.02410
1.465	4.000	.00480	.00800	-.02950	.03690	.00000	.00000	.02500
1.465	6.000	.00800	.00320	-.03670	.04090	.00000	.00000	.02890
1.465	8.000	.00730	.00600	-.04350	.04340	.00000	.00000	.03120
1.465	10.000	.00280	.01050	-.04960	.04970	.00000	.00000	.03280
1.465	GRADIENT	-.00013	.00104	-.00316	.00230	.00000	.00000	.00003

MSFC 570 (1A31F) (S3/2) / (03) / (T9) / (S3/2)

(R03R10) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

XMRP = 2.5490 IN.
YMRP = .0000 IN.
ZMRP = .0000 IN.

PARAMETRIC DATA

ALPHA = 5.000
DELTA2 = .140
X-SRB = .000
SPACER = .000
SFAGAP = .000

CONFIG = 400.000
RUDDER = .000
ORBINC = 1.000
SPADIA = .000

RUN NO. 4069/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	.02920	-.01840	.00960	.00730	.00000	.00000	.01170
2.990	-8.000	.02010	-.00940	.01270	.00420	.00000	.00000	.01210
2.990	-6.000	.01390	-.00330	.01110	.00430	.00000	.00000	.01290
2.990	-4.000	.01170	-.00090	.00850	.00780	.00000	.00000	.01150
2.990	-2.000	.01140	.00040	-.00060	.01340	.00000	.00000	.01110
2.990	.000	.01020	.00300	-.00990	.01960	.00000	.00000	.01170
2.990	2.000	.00930	.00340	-.01760	.02490	.00000	.00000	.01360
2.990	4.000	.00940	.00680	-.02490	.02990	.00000	.00000	.01450
2.990	6.000	.00930	.00910	-.03220	.03440	.00000	.00000	.01430
2.990	8.000	.00810	.01040	-.03670	.03930	.00000	.00000	.01400
2.990	10.000	.00690	.01290	-.04390	.04130	.00000	.00000	.01350
GRADIENT		-.00033	.00102	-.00399	.00277	.00000	.00000	.00042

RUN NO. 4068/ 0 RIVL = 6.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	.02960	-.01940	.01240	.00370	.00000	.00000	.00990
3.480	-8.000	.02020	-.01010	.01420	.00130	.00000	.00000	.00970
3.480	-6.000	.01430	-.00400	.01190	.00290	.00000	.00000	.00930
3.480	-4.000	.01140	-.00090	.00730	.00650	.00000	.00000	.00970
3.480	-2.000	.01000	.00150	.00090	.01100	.00000	.00000	.00940
3.480	.000	.00960	.00390	-.00790	.01680	.00000	.00000	.00960
3.480	2.000	.00920	.00630	-.01610	.02270	.00000	.00000	.00960
3.480	4.000	.00900	.00900	-.02250	.02690	.00000	.00000	.01030
3.480	6.000	.00990	.00950	-.02910	.03110	.00000	.00000	.01040
3.480	8.000	.00980	.00970	-.03610	.03560	.00000	.00000	.01010
3.480	10.000	.00940	.01140	-.04200	.03900	.00000	.00000	.00960
GRADIENT		-.00029	.00112	-.00393	.00262	.00000	.00000	.00022



MSFC 570 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(R83R11) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 400.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4117/ 0 R/V/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	.03000	-.02680	.00250	.00390	.00000	.00000	.03510
.898	-8.000	.02570	-.02240	.00270	.00450	.00000	.00000	.03220
.898	-6.000	.02430	-.02050	.00070	.00510	.00000	.00000	.03060
.898	-4.000	.02480	-.02030	-.00350	.00790	.00000	.00000	.02860
.898	-2.000	.02520	-.01960	-.00950	.01270	.00000	.00000	.02690
.898	.000	.02480	-.01800	-.01670	.01890	.00000	.00000	.02600
.898	2.000	.02530	-.01740	-.02440	.02560	.00000	.00000	.02590
.898	4.000	.02630	-.01720	-.03190	.03220	.00000	.00000	.02690
.898	6.000	.02630	-.01650	-.03950	.03850	.00000	.00000	.02830
.898	8.000	.02600	-.01540	-.04470	.04410	.00000	.00000	.03030
.898	10.000	.02370	-.01270	-.05090	.04950	.00000	.00000	.03160
	GRADIENT	.00016	.00042	-.00338	.00307	.00000	.00000	-.00023

RUN NO. 4116/ 0 R/V/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.033	-10.000	.02600	-.02560	-.00010	.01090	.00000	.00000	.02490
1.033	-8.000	.02350	-.02220	.00200	.00790	.00000	.00000	.02280
1.033	-6.000	.02290	-.02040	-.00070	.00890	.00000	.00000	.02090
1.033	-4.000	.02290	-.01910	-.00650	.01300	.00000	.00000	.01870
1.033	-2.000	.02320	-.01790	-.01270	.01770	.00000	.00000	.01720
1.033	.000	.02390	-.01690	-.01910	.02260	.00000	.00000	.01720
1.033	2.000	.02450	-.01620	-.02620	.02890	.00000	.00000	.01810
1.033	4.000	.02600	-.01610	-.03400	.03630	.00000	.00000	.01940
1.033	6.000	.02730	-.01600	-.04190	.04350	.00000	.00000	.02150
1.033	8.000	.02610	-.01440	-.04830	.04910	.00000	.00000	.02320
1.033	10.000	.02300	-.01140	-.05440	.03430	.00000	.00000	.02430
	GRADIENT	.00038	.00038	-.00342	.00289	.00000	.00000	.00012

WSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2)

(R93R11) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF16 = 495.000
 DELTAZ = .280 RUDDER = .000
 X-SQS = .000 CP3INC = -.100
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4115/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.250	-10.000	.01820	-.01840	-.01300	.02740	.00000	.00000	.03470
1.250	-8.000	.01310	-.01180	-.00870	.02240	.00000	.00000	.03190
1.250	-6.000	.01140	-.00870	-.00900	.02100	.00000	.00000	.02970
1.250	-4.000	.01120	-.00710	-.01280	.02280	.00000	.00000	.02850
1.250	-2.000	.01060	-.00460	-.01750	.02630	.00000	.00000	.02810
1.250	.000	.01070	-.00250	-.02370	.03080	.00000	.00000	.02920
1.250	2.000	.01270	-.00270	-.03050	.03620	.00000	.00000	.03140
1.250	4.000	.01600	-.00440	-.03670	.04150	.00000	.00000	.03350
1.250	6.000	.01810	-.00530	-.04310	.04670	.00000	.00000	.03550
1.250	8.000	.01610	-.00250	-.05040	.05240	.00000	.00000	.03700
1.250	10.000	.01270	-.00040	-.05780	.05780	.00000	.00000	.03850
GRADIENT		.00059	.00037	-.00305	.00236	.00000	.00000	.00066

RUN NO. 4096/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.465	-10.000	.01300	-.00860	-.00730	.02320	.00000	.00000	.02430
1.465	-8.000	.00990	-.00430	-.00360	.01920	.00000	.00000	.02370
1.465	-6.000	.00840	-.00120	-.00400	.01900	.00000	.00000	.02290
1.465	-4.000	.00980	-.00150	-.00670	.02050	.00000	.00000	.02370
1.465	-2.000	.01200	-.00200	-.01070	.02250	.00000	.00000	.02400
1.465	.000	.01370	-.00180	-.01600	.02590	.00000	.00000	.02530
1.465	2.000	.01790	-.00410	-.02350	.03210	.00000	.00000	.02690
1.465	4.000	.02180	-.00670	-.03230	.03950	.00000	.00000	.02830
1.465	6.000	.02450	-.00830	-.03850	.04420	.00000	.00000	.02810
1.465	8.000	.02490	-.00840	-.04600	.04820	.00000	.00000	.02960
1.465	10.000	.02180	-.00560	-.05240	.05260	.00000	.00000	.03000
GRADIENT		.00149	-.00061	-.00320	.00239	.00000	.00000	.00036



DATE 03 NOV 74

TABULATED SOURCE DATA - MSCF 370

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MSFC 370 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(R03R11) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIC = 400.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 CRBTNC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4070/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.02850	-.01620	.01320	.00460	.00000	.00000	.01300
2.990	-6.000	.02020	-.00800	.01350	.00290	.00000	.00000	.01210
2.990	-6.000	.01340	-.00310	.01110	.00400	.00000	.00000	.01190
2.990	-4.000	.01390	-.00110	.00610	.00790	.00000	.00000	.01140
2.990	-2.000	.01360	.00020	-.00140	.01330	.00000	.00000	.01090
2.990	.000	.01280	.00270	-.00940	.01660	.00000	.00000	.01140
2.990	2.000	.01300	.00410	-.01630	.02330	.00000	.00000	.01290
2.990	4.000	.01460	.00410	-.02330	.02790	.00000	.00000	.01440
2.990	6.000	.01570	.00430	-.03160	.03340	.00000	.00000	.01460
2.990	8.000	.01630	.00320	-.04000	.03910	.00000	.00000	.01420
2.990	10.000	.01660	.00610	-.04690	.04350	.00000	.00000	.01340
GRADIENT		.00004	.00071	-.00368	.00250	.00000	.00000	.00040

RUN NO. 4071/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.02900	-.01710	.01370	.00260	.00000	.00000	.00760
3.480	-6.000	.02100	-.00930	.01360	.00010	.00000	.00000	.00930
3.480	-6.000	.01590	-.00400	.01250	.00230	.00000	.00000	.00920
3.480	-4.000	.01340	-.00090	.00830	.00360	.00000	.00000	.00760
3.480	-2.000	.01310	.00070	.00270	.00900	.00000	.00000	.00770
3.480	.000	.01400	.00180	-.00560	.01400	.00000	.00000	.00790
3.480	2.000	.01490	.00280	-.01310	.01910	.00000	.00000	.00970
3.480	4.000	.01670	.00270	-.01970	.02360	.00000	.00000	.00960
3.480	6.000	.01640	.00250	-.02730	.02860	.00000	.00000	.00970
3.480	8.000	.01690	.00380	-.03310	.03380	.00000	.00000	.00940
3.480	10.000	.01910	.00330	-.04210	.03840	.00000	.00000	.00910
GRADIENT		.00042	.00045	-.00359	.00230	.00000	.00000	.00023

(R03R12) (21 SEP 73)

MSFC 570 (1A31F) (S3/2) (O3) (T9) (S3/2)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
.93130 IN. YMRP = .0000 IN.
.93130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = 5.000 COEFIC = 400.000
DELTAZ = .250 RUDDER = .000
X-SRB = .000 OPSINC = .000
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 4118/ 0 RIVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.000	.02690	-.02460	.00340	.00540	.00000	.00000	.03390
.998	-5.000	.02320	-.02030	.00400	.00360	.00000	.00000	.03100
.998	-6.000	.02140	-.01930	.00240	.00390	.00000	.00000	.02880
.998	-4.000	.02100	-.01750	-.00170	.00550	.00000	.00000	.02740
.998	-2.000	.02070	-.01620	-.00390	.01210	.00000	.00000	.02600
.998	.000	.02030	-.01450	-.01650	.01850	.00000	.00000	.02450
.998	2.000	.02070	-.01390	-.02330	.02450	.00000	.00000	.02460
.998	4.000	.02170	-.01380	-.03070	.03110	.00000	.00000	.02350
.998	6.000	.02180	-.01300	-.03810	.03770	.00000	.00000	.02750
.998	8.000	.02100	-.01160	-.04490	.04360	.00000	.00000	.02390
.998	10.000	.01900	-.00930	-.05110	.04900	.00000	.00000	.03060
GRADIENT	.00037	.00049	-.00362	.00305	.00000	.00000	.00000	-.00026

RUN NO. 4119/ 0 RIVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	.02390	-.02440	.00080	.01010	.00000	.00000	.02390
1.048	-8.000	.02180	-.02110	.00220	.00720	.00000	.00000	.02090
1.048	-6.000	.02010	-.01840	.00020	.00790	.00000	.00000	.01780
1.048	-4.000	.01950	-.01690	-.00490	.01130	.00000	.00000	.01550
1.048	-2.000	.01990	-.01590	-.01090	.01560	.00000	.00000	.01500
1.048	.000	.02030	-.01460	-.01740	.02050	.00000	.00000	.01590
1.048	2.000	.02090	-.01370	-.02460	.02710	.00000	.00000	.01870
1.048	4.000	.02270	-.01400	-.03230	.03440	.00000	.00000	.02060
1.048	6.000	.02380	-.01390	-.04020	.04150	.00000	.00000	.02130
1.048	8.000	.02290	-.01200	-.04790	.04740	.00000	.00000	.02230
1.048	10.000	.01970	-.00970	-.05360	.05290	.00000	.00000	.02000
GRADIENT	.00037	.00039	-.00343	.00288	.00000	.00000	.00000	.00043

MSFC 570 (1A31F) (S3/2) / (O3) / (T9) / (S9/2)

(R83R12) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIC = 400.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4120/ 0 RVL = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	.01450	-.01340	-.01230	.02680	.00000	.00000	.03350
1.249	-8.000	.00970	-.00910	-.00740	.02120	.00000	.00000	.03000
1.249	-6.000	.00780	-.00690	-.00530	.01960	.00000	.00000	.02870
1.249	-4.000	.00730	-.00410	-.01090	.02130	.00000	.00000	.02890
1.249	-2.000	.00640	-.00140	-.01630	.02490	.00000	.00000	.02990
1.249	.000	.00360	.00120	-.02270	.02970	.00000	.00000	.02950
1.249	2.000	.00890	.00160	-.02940	.03500	.00000	.00000	.03070
1.249	4.000	.00970	.00900	-.03610	.04040	.00000	.00000	.03250
1.249	6.000	.01150	-.00090	-.04340	.04650	.00000	.00000	.03330
1.249	8.000	.01010	.00120	-.05080	.05230	.00000	.00000	.03660
1.249	10.000	.00720	.00420	-.05780	.05760	.00000	.00000	.03760
GRADIENT		.00026	.00056	-.00317	.00241	.00000	.00000	.00046

RUN NO. 4093/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	.00930	-.00520	-.00430	.02030	.00000	.00000	.02790
1.466	-8.000	.00590	-.00030	-.00210	.01790	.00000	.00000	.02460
1.466	-6.000	.00370	.00300	-.00280	.01800	.00000	.00000	.02290
1.466	-4.000	.00600	.00180	-.00330	.01920	.00000	.00000	.02590
1.466	-2.000	.00730	.00200	-.00840	.02060	.00000	.00000	.02410
1.466	.000	.00920	.00200	-.01450	.02480	.00000	.00000	.02410
1.466	2.000	.01340	-.00030	-.02230	.03100	.00000	.00000	.02530
1.466	4.000	.01780	-.00300	-.03070	.03900	.00000	.00000	.02670
1.466	6.000	.02120	-.00540	-.03660	.04320	.00000	.00000	.02860
1.466	8.000	.02250	-.00640	-.04590	.04730	.00000	.00000	.03010
1.466	10.000	.02060	-.00430	-.05190	.05140	.00000	.00000	.03050
GRADIENT		.00149	-.00059	-.00323	.00240	.00000	.00000	.00023

MSFC 570 (1A31F) (S3/2) (03) / (T9) / (S3/2)

(R83R12) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 400.000
DELTA Z = .280 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4073/ 0 RN/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.02300	-.01240	.01320	.00450	.00000	.00000	.01200
2.990	-8.000	.01700	-.00330	.01400	.00230	.00000	.00000	.01120
2.990	-6.000	.01230	-.00050	.01160	.00340	.00000	.00000	.01110
2.990	-4.000	.01110	.00120	.00600	.00780	.00000	.00000	.01100
2.990	-2.000	.01050	.00290	-.00110	.01310	.00000	.00000	.01090
2.990	.000	.00950	.00360	-.00390	.01810	.00000	.00000	.01100
2.990	2.000	.01020	.00680	-.01530	.02310	.00000	.00000	.01190
2.990	4.000	.01220	.00630	-.02300	.02740	.00000	.00000	.01350
2.990	6.000	.01350	.00640	-.03040	.03230	.00000	.00000	.01430
2.990	8.000	.01390	.00720	-.03630	.03790	.00000	.00000	.01390
2.990	10.000	.01440	.00800	-.04490	.04170	.00000	.00000	.01320
GRADIENT		.00010	.00072	-.00366	.00246	.00000	.00000	.00030

RUN NO. 4072/ 0 RN/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.02440	-.01340	.01610	.00070	.00000	.00000	.00770
3.480	-8.000	.01800	-.00690	.01580	-.00010	.00000	.00000	.00810
3.480	-6.000	.01240	-.00090	.01320	.00150	.00000	.00000	.00810
3.480	-4.000	.00980	.00230	.00870	.00470	.00000	.00000	.00790
3.480	-2.000	.01010	.00340	.00210	.00990	.00000	.00000	.00770
3.480	.000	.01070	.00470	-.00350	.01400	.00000	.00000	.00730
3.480	2.000	.01210	.00520	-.01260	.01860	.00000	.00000	.00810
3.480	4.000	.01440	.00460	-.01920	.02300	.00000	.00000	.00930
3.480	6.000	.01610	.00460	-.02700	.02810	.00000	.00000	.00970
3.480	8.000	.01650	.00380	-.03460	.03320	.00000	.00000	.00930
3.480	10.000	.01690	.00720	-.04090	.03740	.00000	.00000	.00900
GRADIENT		.00056	.00032	-.00352	.00231	.00000	.00000	.00018

MSFC 370 (1A31F) (S3/2)/(03)/(19)/(93/2)

(R03R13) (21 SEP 73)

REFERENCE DATA

REF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 400.000
DELTAZ = .280 RUDDER = .000
X-SRB = .000 CFBINC = 1.300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4123/ 0 RM/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	.02650	-.00940	.01130	.00450	.00000	.00000	.03200
.899	-8.000	.02310	-.00670	.01170	.00300	.00000	.00000	.03090
.899	-6.000	.01980	-.00500	.01150	.00220	.00000	.00000	.02950
.899	-4.000	.01900	-.00420	.00930	.00240	.00000	.00000	.02990
.899	-2.000	.01950	-.00330	.00200	.00410	.00000	.00000	.02790
.899	.000	.01970	-.00180	-.00520	.00640	.00000	.00000	.02710
.899	2.000	.02150	-.00070	-.01310	.00990	.00000	.00000	.02640
.899	4.000	.02410	-.00030	-.02120	.01140	.00000	.00000	.02540
.899	6.000	.02510	.00000	-.02960	.01430	.00000	.00000	.02610
.899	8.000	.02490	.00070	-.03760	.01690	.00000	.00000	.02910
.899	10.000	.02420	.00200	-.04420	.01980	.00000	.00000	.02940
GRADIENT		.00061	.00052	-.00370	.00113	.00000	.00000	-.00042

RUN NO. 4122/ 0 RM/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.043	-10.000	.02210	-.02280	.00910	.00260	.00000	.00000	.02700
1.043	-8.000	.02090	-.02070	.01250	-.00210	.00000	.00000	.02340
1.043	-6.000	.01990	-.01860	.01020	-.00150	.00000	.00000	.01990
1.043	-4.000	.01960	-.01690	.00440	.00250	.00000	.00000	.01790
1.043	-2.000	.02010	-.01550	-.00230	.00760	.00000	.00000	.01730
1.043	.000	.02080	-.01430	-.00910	.01310	.00000	.00000	.01760
1.043	2.000	.02220	-.01370	-.01690	.02000	.00000	.00000	.01840
1.043	4.000	.02490	-.01450	-.02520	.02770	.00000	.00000	.02000
1.043	6.000	.02700	-.01530	-.03290	.03470	.00000	.00000	.02190
1.043	8.000	.02720	-.01440	-.04030	.04110	.00000	.00000	.02190
1.043	10.000	.02590	-.01240	-.04730	.04700	.00000	.00000	.02130
GRADIENT		.00064	.00033	-.00369	.00314	.00000	.00000	.00027

HSFC 370 (1A31F) (S3/21) (G31) (T9) (S3/2)

(R93R13) (21 SEP 73

REFERENCE DATA

BREF = .9720 SQ. IN
LREF = 9.3130 IN.
BREF = 9.3130 IN.
SCALE = .0040

XMRP = 2.5490 IN.
YMRP = .0000 IN.
ZMRP = .0000 IN.

ALPHA = 5.000 COXFTG = 400.00F
DELTAZ = .250 RUDDER = .000
X-SRB = .000 CRBINC = 1.000
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4121/ 0 RIV/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	.01740	-.00860	-.00300	.01790	.00000	.00000	.03660
1.244	-8.000	.01120	-.00430	-.00200	.01630	.00000	.00000	.03560
1.244	-6.000	.00730	-.00110	-.00210	.01520	.00000	.00000	.03300
1.244	-4.000	.00540	.00100	-.00340	.01510	.00000	.00000	.03160
1.244	-2.000	.00620	.00310	-.01040	.01370	.00000	.00000	.03170
1.244	.000	.00590	.00360	-.01650	.01690	.00000	.00000	.03350
1.244	2.000	.00690	.00730	-.02390	.01860	.00000	.00000	.03650
1.244	4.000	.00960	.00760	-.03110	.02070	.00000	.00000	.03670
1.244	6.000	.01270	.00720	-.03790	.02230	.00000	.00000	.03530
1.244	8.000	.01370	.00770	-.04360	.02390	.00000	.00000	.03970
1.244	10.000	.01160	.00920	-.05300	.02510	.00000	.00000	.04100
1.244	GRADIENT	.00036	.00087	-.00324	.00071	.00000	.00000	.00076

RUN NO. 4094/ 0 RIV/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.00650	-.00290	-.00110	.01830	.00000	.00000	.02920
1.465	-8.000	.00140	.00360	.00000	.01650	.00000	.00000	.02550
1.465	-6.000	.00000	.00660	-.00020	.01560	.00000	.00000	.02330
1.465	-4.000	.00210	.00510	-.00300	.01780	.00000	.00000	.02610
1.465	-2.000	.00320	.00590	-.00650	.01960	.00000	.00000	.02560
1.465	.000	.00440	.00610	-.01290	.02400	.00000	.00000	.02530
1.465	2.000	.00690	.00410	-.02090	.02960	.00000	.00000	.02490
1.465	4.000	.01510	-.00090	-.02940	.03350	.00000	.00000	.02640
1.465	6.000	.01910	-.00380	-.03760	.04160	.00000	.00000	.02940
1.465	8.000	.01940	-.00290	-.04500	.04620	.00000	.00000	.03070
1.465	10.000	.01740	.00000	-.05130	.05030	.00000	.00000	.03270
1.465	GRADIENT	.00159	-.00069	-.00335	.00228	.00000	.00000	-.00001



MSFC 570 (1131F) (83/2) / (03) / (T9) / (83/2)

(R03R13) (21 SEP 75)

REFERENCE DATA

SRP = .9780 SQ. IN XMRP = 2.9490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BRP = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 400.000
DELTAZ = .250 RUDDER = .000
X-SRB = .000 ORBINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4074/ 0 RVL = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.02140	-.00980	.01500	.00390	.00000	.00000	.01210
2.990	-8.000	.01370	-.00200	.01590	.00160	.00000	.00000	.01190
2.990	-6.000	.00900	.00280	.01300	.00290	.00000	.00000	.01130
2.990	-4.000	.00810	.00430	.00670	.00750	.00000	.00000	.01110
2.990	-2.000	.00810	.01550	-.00060	.01310	.00000	.00000	.01100
2.990	.000	.00720	.00820	-.00960	.01920	.00000	.00000	.01090
2.990	2.000	.00790	.00940	-.01610	.02300	.00000	.00000	.01110
2.990	4.000	.01000	.00890	-.02280	.02740	.00000	.00000	.01260
2.990	6.000	.01160	.00970	-.03040	.03220	.00000	.00000	.01390
2.990	8.000	.01230	.00950	-.03920	.03740	.00000	.00000	.01370
2.990	10.000	.01310	.01040	-.04520	.04190	.00000	.00000	.01320
GRADIENT		.00016	.00066	-.00372	.00249	.00000	.00000	.00015

RUN NO. 4075/ 0 RVL = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.02280	-.01190	.01620	.00090	.00000	.00000	.00940
3.480	-8.000	.01430	-.00310	.01710	-.00070	.00000	.00000	.00980
3.480	-6.000	.00820	.00310	.01440	.00110	.00000	.00000	.00950
3.480	-4.000	.00680	.00320	.00910	.00470	.00000	.00000	.00930
3.480	-2.000	.00770	.00610	.00240	.00880	.00000	.00000	.00920
3.480	.000	.00600	.00770	-.00490	.01350	.00000	.00000	.00930
3.480	2.000	.00980	.00780	-.01230	.01950	.00000	.00000	.00980
3.480	4.000	.01200	.00710	-.01980	.02350	.00000	.00000	.00920
3.480	6.000	.01330	.00740	-.02700	.02920	.00000	.00000	.00960
3.480	8.000	.01430	.00840	-.03430	.03290	.00000	.00000	.00950
3.480	10.000	.01520	.00950	-.04150	.03750	.00000	.00000	.00920
GRADIENT		.00062	.00028	-.00362	.00236	.00000	.00000	.00012

MSFC 370 (1A31F) (33/2)/(03)/(79)/(33/2)

(R93014) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COEF10 = 400.000
 DELTA2 = .140 RUDDER = .000
 X-SRB = .000 CRRINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4124/ 0 RN/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	.01130	-.01980	-.01330	.02340	.00000	.00000	.02800
.899	-8.000	.01130	-.01990	-.00900	.01970	.00000	.00000	.02360
.899	-6.000	.00700	-.01770	-.00260	.01480	.00000	.00000	.02390
.899	-4.000	-.00200	-.01240	-.00050	.01290	.00000	.00000	.02500
.899	-2.000	-.01580	-.00340	-.00170	.01400	.00000	.00000	.02670
.899	.000	-.03250	.00730	-.00390	.01610	.00000	.00000	.02750
.899	2.000	-.04970	.01760	-.00770	.01930	.00000	.00000	.02900
.899	4.000	-.06670	.02700	-.01270	.02300	.00000	.00000	.03100
.899	6.000	-.08500	.03700	-.02000	.02950	.00000	.00000	.03300
.899	8.000	-.10480	.04700	-.03010	.03610	.00000	.00000	.03370
.899	10.000	-.12510	.05850	-.03910	.04250	.00000	.00000	.03450
GRADIENT		-.00817	.00499	-.00152	.00127	.00000	.00000	.00055

RUN NO. 4125/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	.01980	-.02530	-.00500	.02240	.00000	.00000	.01900
1.049	-8.000	.01640	-.02490	-.00490	.01990	.00000	.00000	.01630
1.049	-6.000	.00670	-.01930	-.00410	.01680	.00000	.00000	.01690
1.049	-4.000	-.00850	-.01050	-.00460	.01510	.00000	.00000	.01610
1.049	-2.000	-.02130	-.00090	-.00820	.01690	.00000	.00000	.01590
1.049	.000	-.03790	.00920	-.01240	.02000	.00000	.00000	.01990
1.049	2.000	-.05530	.01920	-.01620	.02320	.00000	.00000	.02110
1.049	4.000	-.07270	.02860	-.02190	.02770	.00000	.00000	.02270
1.049	6.000	-.09160	.03940	-.02900	.03330	.00000	.00000	.02400
1.049	8.000	-.11330	.05290	-.03910	.03990	.00000	.00000	.02490
1.049	10.000	-.13580	.06840	-.04770	.04610	.00000	.00000	.02580
GRADIENT		-.00932	.00493	-.00213	.00159	.00000	.00000	.00092



WSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2)

(R83R14) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFLG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4126/ 1 RM/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	.02480	-.03450	-.00250	.02370	.00000	.00000	.03170
1.244	-8.000	.01820	-.03130	-.00460	.02390	.00000	.00000	.03260
1.244	-6.000	.00690	-.02400	-.00450	.02270	.00000	.00000	.03320
1.244	-4.000	-.00740	-.01440	-.00480	.02120	.00000	.00000	.03170
1.244	-2.000	-.02250	-.00500	-.00730	.02100	.00000	.00000	.02950
1.244	.000	-.03920	.00500	-.01030	.02230	.00000	.00000	.03050
1.244	2.000	-.05870	.01740	-.01310	.02430	.00000	.00000	.03350
1.244	4.000	-.07940	.03060	-.01710	.02740	.00000	.00000	.03330
1.244	6.000	-.10050	.04340	-.02310	.03260	.00000	.00000	.03640
1.244	8.000	-.12300	.05660	-.03010	.03810	.00000	.00000	.03720
1.244	10.000	-.14830	.07160	-.03840	.04340	.00000	.00000	.03820
1.244	GRADIENT	-.00901	.00562	-.00152	.00079	.00000	.00000	.00056

RUN NO. 4093/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	.01960	-.03040	-.00880	.02770	.00000	.00000	.02680
1.466	-8.000	.01230	-.02510	-.00600	.02380	.00000	.00000	.02570
1.466	-6.000	.00230	-.01960	-.00450	.02090	.00000	.00000	.02500
1.466	-4.000	-.01020	-.01140	-.00420	.01920	.00000	.00000	.02450
1.466	-2.000	-.02430	-.00060	-.00840	.02140	.00000	.00000	.02410
1.466	.000	-.03990	.01050	-.01610	.02700	.00000	.00000	.02390
1.466	2.000	-.05700	.02180	-.02200	.03090	.00000	.00000	.02400
1.466	4.000	-.07900	.03340	-.02630	.03340	.00000	.00000	.02320
1.466	6.000	-.09460	.04570	-.03140	.03660	.00000	.00000	.02730
1.466	8.000	-.11630	.05990	-.03710	.03940	.00000	.00000	.02860
1.466	10.000	-.14070	.07610	-.04370	.04290	.00000	.00000	.02890
1.466	GRADIENT	-.00811	.00560	-.00289	.00189	.00000	.00000	.00006

MSFC 570 (1A31F) (S3/2) (G3/2) (T9) (S3/2) (R83R14) (21 SEP 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COARF10 = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4077/ 0 RV/L = 4.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
2.990	-10.000	-.00870	-.01210	.01780	-.00040	.00000	.00000	.00860
2.990	-8.000	-.01310	-.00750	.02210	-.00320	.00000	.00000	.01210
2.990	-6.000	-.01870	-.00300	.02340	-.00770	.00000	.00000	.01240
2.990	-4.000	-.02450	.00070	.02170	-.00760	.00000	.00000	.01170
2.990	-2.000	-.03190	.00570	.01700	-.00530	.00000	.00000	.01060
2.990	.000	-.04310	.01490	.00970	-.00100	.00000	.00000	.00870
2.990	2.000	-.05580	.02600	.00040	.00510	.00000	.00000	.00330
2.990	4.000	-.06890	.03600	-.00320	.01200	.00000	.00000	.01030
2.990	6.000	-.07950	.04540	-.01890	.01910	.00000	.00000	.00900
2.990	8.000	-.09030	.05420	-.02800	.02370	.00000	.00000	.00900
2.990	10.000	-.10030	.06230	-.03300	.03040	.00000	.00000	.01040
GRADIENT		-.00555	.00454	-.00392	.00249	.00000	.00000	-.00021

RUN NO. 4076/ 0 RV/L = 5.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
3.480	-10.000	-.01630	-.00360	.01600	.00010	.00000	.00000	.00860
3.480	-8.000	-.01940	-.00180	.02090	-.00520	.00000	.00000	.00900
3.480	-6.000	-.02150	.00030	.02280	-.00940	.00000	.00000	.01020
3.480	-4.000	-.02660	.00400	.02110	-.00840	.00000	.00000	.01030
3.480	-2.000	-.03410	.01030	.01540	-.00490	.00000	.00000	.00930
3.480	.000	-.04490	.01990	.00710	.00070	.00000	.00000	.00730
3.480	2.000	-.05710	.03030	-.00190	.00740	.00000	.00000	.00670
3.480	4.000	-.06750	.04000	-.01140	.01430	.00000	.00000	.00920
3.480	6.000	-.07740	.04930	-.02070	.02120	.00000	.00000	.00780
3.480	8.000	-.08760	.05690	-.02930	.02740	.00000	.00000	.00750
3.480	10.000	-.09750	.06620	-.03700	.03280	.00000	.00000	.00950
GRADIENT		-.00524	.00483	-.00411	.00288	.00000	.00000	-.00035



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)

(R03R19) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4129/ 0 RWL = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.00640	-.01650	-.01090	.02300	.00000	.00000	.02730
.900	-8.000	.00800	-.01680	-.00270	.01470	.00000	.00000	.02620
.900	-6.000	.00280	-.01390	.00070	.01160	.00000	.00000	.02590
.900	-4.000	-.00700	-.00780	.00080	.01140	.00000	.00000	.02350
.900	-2.000	-.02050	.00090	-.00060	.01220	.00000	.00000	.02570
.900	.000	-.03690	.01170	-.00300	.01440	.00000	.00000	.02690
.900	2.000	-.05310	.02280	-.00660	.01730	.00000	.00000	.02630
.900	4.000	-.07260	.03280	-.01180	.02130	.00000	.00000	.03030
.900	6.000	-.09980	.04220	-.01980	.02740	.00000	.00000	.03190
.900	8.000	-.10860	.05210	-.02860	.03420	.00000	.00000	.03270
.900	10.000	-.13020	.06350	-.03770	.04070	.00000	.00000	.03410
GRADIENT		-.00829	.00315	-.00156	.00124	.00000	.00000	.00063

RUN NO. 4128/ 0 RWL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	.02000	-.02550	-.00480	.02270	.00000	.00000	.01490
1.048	-8.000	.01190	-.02110	-.00030	.01550	.00000	.00000	.01620
1.048	-6.000	.00140	-.01450	.00190	.01050	.00000	.00000	.01630
1.048	-4.000	-.01140	-.00610	.00030	.00940	.00000	.00000	.01440
1.048	-2.000	-.02650	.00340	-.00250	.01140	.00000	.00000	.01370
1.048	.000	-.04310	.01390	-.00670	.01450	.00000	.00000	.01650
1.048	2.000	-.06010	.02390	-.01250	.01870	.00000	.00000	.01920
1.048	4.000	-.07720	.03340	-.01860	.02370	.00000	.00000	.02030
1.048	6.000	-.09630	.04440	-.02710	.03060	.00000	.00000	.02220
1.048	8.000	-.11750	.05720	-.03690	.03820	.00000	.00000	.02350
1.048	10.000	-.13870	.06990	-.04690	.04460	.00000	.00000	.02370
GRADIENT		-.00826	.00497	-.00241	.00179	.00000	.00000	.00056

(083015) (21 SEP 73)

MSFC 970 (1A31F) (S3/2)/(03)/(T0)/(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN.
 LREF = 9.3130 IN.
 BREF = 9.3130 IN.
 SCALE = .0040

ALPHA = -5.000
 DELTAZ = .140
 X-SRB = .000
 SPACER = .000
 SPAGAP = .000

2.5490 IN.

.0000 IN.
 .0000 IN.

PARAMETRIC DATA

RUN NO. 4127/ 0 RVL = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-6.000	.00400	-.02100	-.00150	.02050	.00000	.00000	.03400
1.245	-4.000	-.01140	-.01030	-.00200	.01910	.00000	.00000	.03190
1.245	-2.000	-.02710	-.00050	-.00440	.01900	.00000	.00000	.02490
1.245	.000	-.04410	.00950	-.00690	.01930	.00000	.00000	.02970
1.245	2.000	-.06370	.02210	-.00900	.02090	.00000	.00000	.03230
1.245	4.000	-.08460	.03310	-.01290	.02410	.00000	.00000	.03420
1.245	6.000	-.10650	.04920	-.01990	.02930	.00000	.00000	.03590
1.245	8.000	-.12990	.06220	-.02690	.03320	.00000	.00000	.03700
1.245	10.000	-.15570	.07760	-.03540	.04110	.00000	.00000	.03770
GRADIENT		-.00915	.00559	-.00132	.00050	.00000	.00000	.00040

RUN NO. 4032/ 0 RVL = 5.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	.02230	-.03410	-.01050	.03030	.00000	.00000	.02520
1.467	-8.000	.01350	-.02500	-.00480	.02330	.00000	.00000	.02570
1.467	-6.000	.00210	-.01810	-.00270	.02090	.00000	.00000	.02460
1.467	-4.000	-.01000	-.01040	-.00240	.01900	.00000	.00000	.02290
1.467	-2.000	-.02360	-.00040	-.00640	.01970	.00000	.00000	.02340
1.467	.000	-.03940	.01120	-.01390	.02480	.00000	.00000	.02440
1.467	2.000	-.05550	.02250	-.02010	.02870	.00000	.00000	.02530
1.467	4.000	-.07470	.03460	-.02440	.03140	.00000	.00000	.02630
1.467	6.000	-.09350	.04650	-.02920	.03430	.00000	.00000	.02790
1.467	8.000	-.11370	.05970	-.03630	.03900	.00000	.00000	.02990
1.467	10.000	-.13740	.07600	-.04340	.04190	.00000	.00000	.03010
GRADIENT		-.00911	.00554	-.00298	.00179	.00000	.00000	.00044



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(Q3)/(T9)/(S3/2)

(R93R15) (21 SEP 73)

REFERENCE DATA

SREF = .9720 50. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 400.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRBINC = .900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4079/ 0 RN/L = 4.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.01410	-.00820	.01970	-.00140	.00000	.00000	.00950
2.990	-8.000	-.01730	-.00410	.02350	-.00640	.00000	.00000	.01130
2.990	-6.000	-.02170	-.00050	.02500	-.00940	.00000	.00000	.01210
2.990	-4.000	-.02780	.00350	.02380	-.00980	.00000	.00000	.01160
2.990	-2.000	-.03600	.00950	.01910	-.00730	.00000	.00000	.01060
2.990	.000	-.04700	.01870	.01170	-.00290	.00000	.00000	.00910
2.990	2.000	-.06020	.02990	.00300	.00280	.00000	.00000	.00840
2.990	4.000	-.07250	.04030	-.00720	.01020	.00000	.00000	.00910
2.990	6.000	-.08380	.04970	-.01770	.01770	.00000	.00000	.00910
2.990	8.000	-.09420	.05840	-.02670	.02410	.00000	.00000	.00990
2.990	10.000	-.10360	.06630	-.03470	.02930	.00000	.00000	.01120
GRADIENT		-.00368	.00470	-.00390	.00250	.00000	.00000	-.00036

RUN NO. 4079/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.02250	.00130	.01790	-.00130	.00000	.00000	.00740
3.480	-8.000	-.02420	.00310	.02210	-.00640	.00000	.00000	.00990
3.480	-6.000	-.02590	.00420	.02430	-.01000	.00000	.00000	.00990
3.480	-4.000	-.03050	.00750	.02310	-.01030	.00000	.00000	.00990
3.480	-2.000	-.03870	.01450	.01740	-.00690	.00000	.00000	.00750
3.480	.000	-.04990	.02460	.00920	-.00100	.00000	.00000	.00690
3.480	2.000	-.06190	.03550	-.00030	.00360	.00000	.00000	.00650
3.480	4.000	-.07160	.04410	-.01060	.01320	.00000	.00000	.00770
3.480	6.000	-.08150	.05230	-.02020	.02040	.00000	.00000	.00780
3.490	8.000	-.09150	.06110	-.02920	.02880	.00000	.00000	.00780
3.480	10.000	-.10120	.06940	-.03680	.03190	.00000	.00000	.00970
GRADIENT		-.00527	.00471	-.00425	.00299	.00000	.00000	-.00017

MSFC 570 (1A31F) (S3/2) / (Q3) / (T9) (U5) / (S3/2)

(R83R20) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLG = 401.000
DELTAZ = .140 RUDDER = .000
X-SEB = .000 CRBINC = -.500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 4163/ 0 RIV/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.596	-10.000	-.05710	-.01860	.02910	.00200	.00000	.00000	.03450
.596	-8.000	-.04430	-.01540	.00620	.00390	.00000	.00000	.03190
.596	-6.000	-.03160	-.01310	-.01060	.00510	.00000	.00000	.03000
.596	-5.000	-.02510	-.01290	-.01400	.00460	.00000	.00000	.03030
.596	-4.000	-.01920	-.01230	-.01790	.00510	.00000	.00000	.03030
.596	-2.000	-.00890	-.01030	-.02490	.00610	.00000	.00000	.02990
.596	.000	-.00110	-.00900	-.02520	.01020	.00000	.00000	.02970
.596	2.000	.00560	-.00570	-.02400	.01060	.00000	.00000	.02900
.596	4.000	.01340	-.00470	-.01940	.00950	.00000	.00000	.02920
.596	5.000	.01730	-.00370	-.01760	.00750	.00000	.00000	.03070
.596	6.000	.02150	-.00270	-.01460	.00630	.00000	.00000	.03140
.596	8.000	.03070	-.00010	-.00300	.00310	.00000	.00000	.03070
.596	10.000	.03980	.00290	.01410	.00130	.00000	.00000	.03230
GRADIENT	.00413	.00095	-.00022	.00037	.00000	.00000	.00000	-.00003

RUN NO. 4164/ 0 RIV/L = 6.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.900	-10.000	-.06650	-.02110	.05610	.01390	.00000	.00000	.03260
.900	-8.000	-.05410	-.01640	.03230	.01280	.00000	.00000	.03060
.900	-6.000	-.04190	-.01270	.01290	.01030	.00000	.00000	.03060
.900	-5.000	-.03510	-.01220	.00850	.00790	.00000	.00000	.03100
.900	-4.000	-.02890	-.01170	.00260	.00570	.00000	.00000	.03000
.900	-2.000	-.01760	-.01030	-.00970	.00740	.00000	.00000	.02710
.900	.000	-.00870	-.00770	-.01790	.00970	.00000	.00000	.02910
.900	2.000	-.00020	-.00460	-.02450	.01210	.00000	.00000	.03020
.900	4.000	.00960	-.00410	-.01820	.01060	.00000	.00000	.03000
.900	5.000	.01520	-.00350	-.01590	.00960	.00000	.00000	.03010
.900	6.000	.02050	-.00290	-.00940	.00900	.00000	.00000	.03020
.900	8.000	.03040	-.00170	.00350	.00990	.00000	.00000	.03090
.900	10.000	.04270	.00000	.02210	.00870	.00000	.00000	.03160
GRADIENT	.00489	.00095	-.00030	.00039	.00000	.00000	.00000	.00002

MSFC 370 (1A31F) (S3/2) / (C3) / (T9) (U5) / (S3/2)

(R93R20) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 401.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4163/ 0 RN/L = 6.45 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.07350	-.02230	.04630	.01020	.00000	.00000	.02370
1.048	-8.000	-.05920	-.01680	.02280	.00930	.00000	.00000	.02220
1.048	-6.000	-.04650	-.01170	.00110	.00930	.00000	.00000	.02160
1.048	-5.000	-.04050	-.00950	-.00900	.00950	.00000	.00000	.02190
1.048	-4.000	-.03470	-.00750	-.01730	.01010	.00000	.00000	.02190
1.048	-2.000	-.02390	-.00450	-.02750	.01210	.00000	.00000	.02110
1.048	.000	-.01420	-.00230	-.02960	.01440	.00000	.00000	.02010
1.048	2.000	-.00410	-.00180	-.02730	.01320	.00000	.00000	.02120
1.048	4.000	.00680	-.00310	-.01780	.01210	.00000	.00000	.02550
1.048	5.000	.01480	-.00310	-.01470	.01130	.00000	.00000	.02000
1.048	6.000	.02120	-.00310	-.01010	.01070	.00000	.00000	.01980
1.048	8.000	.03480	-.00260	.00330	.01010	.00000	.00000	.01990
1.048	10.000	.04990	-.00170	.02260	.01030	.00000	.00000	.02000
GRADIENT		.00343	.00061	-.00033	.00026	.00000	.00000	-.00017

RUN NO. 4162/ 0 RN/L = 6.59 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.08100	-.02690	.05950	.01350	.00000	.00000	.03350
1.246	-8.000	-.06170	-.02230	.02880	.01190	.00000	.00000	.03330
1.246	-6.000	-.04620	-.01670	.00350	.01160	.00000	.00000	.03310
1.246	-5.000	-.03940	-.01430	-.00700	.01210	.00000	.00000	.03340
1.246	-4.000	-.03290	-.01210	-.01730	.01350	.00000	.00000	.03350
1.246	-2.000	-.02180	-.00790	-.03200	.01700	.00000	.00000	.03270
1.246	.000	-.01420	-.00370	-.03510	.01940	.00000	.00000	.03160
1.246	2.000	-.00600	-.00130	-.03170	.01930	.00000	.00000	.03390
1.246	4.000	.00690	-.00200	-.02370	.01720	.00000	.00000	.03810
1.246	5.000	.01310	-.00180	-.01970	.01630	.00000	.00000	.03890
1.246	6.000	.02000	-.00150	-.01440	.01570	.00000	.00000	.03990
1.246	8.000	.03570	-.00070	-.00010	.01520	.00000	.00000	.03710
1.246	10.000	.05220	.00080	.02310	.01560	.00000	.00000	.03770
GRADIENT		.00503	.00129	-.00098	.00045	.00000	.00000	.00053

MSFC 570 (1A31F) (S3/2) (C3) (T9) (U5) (S3/2)

(R03R20) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 401.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRDINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4190/ 0 RNVL = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.965	-10.000	-1.1690	.04340	.06100	-.03250	.00000	.00000	.02400
1.965	-8.000	-.03190	.02580	.04490	-.02290	.00000	.00000	.02150
1.965	-6.000	-.05630	.01570	.02100	-.00670	.00000	.00000	.02060
1.965	-5.000	-.04710	.01350	.00900	.00210	.00000	.00000	.02040
1.965	-4.000	-.03900	.01180	-.00320	.00990	.00000	.00000	.02020
1.965	-2.000	-.02620	.01020	-.01620	.02160	.00000	.00000	.02040
1.965	.000	-.01700	.01010	-.02220	.02700	.00000	.00000	.02150
1.965	2.000	-.00860	.00960	-.02070	.02740	.00000	.00000	.02290
1.965	4.000	.00000	.00830	-.01590	.02550	.00000	.00000	.02400
1.965	5.000	.00610	.00630	-.01030	.02190	.00000	.00000	.02390
1.965	6.000	.01330	.00390	-.00300	.01720	.00000	.00000	.02340
1.965	8.000	.03130	-.00270	.01740	.00420	.00000	.00000	.02700
1.965	10.000	.05590	-.01320	.04090	-.00900	.00000	.00000	.02700
GRADIENT		.00305	-.00057	-.00164	.00192	.00000	.00000	.00041

RUN NO. 4195/ 0 RNVL = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.09780	-.00660	.02870	.00400	.00000	.00000	.01090
3.480	-8.000	-.08010	-.00570	.02450	.00210	.00000	.00000	.01090
3.480	-6.000	-.06040	-.00340	.01860	.00090	.00000	.00000	.01020
3.480	-5.000	-.05010	-.00340	.01320	.00130	.00000	.00000	.00990
3.480	-4.000	-.04080	-.00320	.00690	.00250	.00000	.00000	.00770
3.480	-2.000	-.02500	-.00410	-.00730	.00650	.00000	.00000	.00740
3.480	.000	-.01290	-.00120	-.01920	.01070	.00000	.00000	.01000
3.480	2.000	-.00360	.00190	-.01890	.01260	.00000	.00000	.00990
3.480	4.000	.00310	.00470	-.01120	.01150	.00000	.00000	.00960
3.480	5.000	.01010	.00610	-.00570	.00990	.00000	.00000	.00910
3.480	6.000	.01650	.00720	-.00040	.00860	.00000	.00000	.00890
3.480	8.000	.03390	.00920	.00990	.00660	.00000	.00000	.00910
3.480	10.000	.05410	.00900	.01490	.00550	.00000	.00000	.00920
GRADIENT		.00556	.00121	-.00211	.00101	.00000	.00000	.00015

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) (C3) (T9) (U5) (S3/2)

(R03R21) (14 SEP 73)

REFERENCE DATA

BRP = .9780 IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 401.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4173/ 0 RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.03900	.01440	.03000	-.01590	.00000	.00000	.03360
.598	-8.000	-.04710	.01120	.00890	-.00190	.00000	.00000	.03200
.598	-6.000	-.03430	.00630	.00880	.00900	.00000	.00000	.03110
.598	-5.000	-.02690	.00250	-.01250	.01060	.00000	.00000	.03020
.598	-4.000	-.02070	-.00020	-.01620	.01310	.00000	.00000	.02930
.598	-2.000	-.01170	-.00310	-.02250	.01980	.00000	.00000	.02900
.598	.000	-.00430	-.00470	-.02420	.02300	.00000	.00000	.02880
.598	2.000	.00230	-.00630	-.02260	.02280	.00000	.00000	.02890
.598	4.000	.01020	-.00960	-.01780	.01630	.00000	.00000	.02740
.598	5.000	.01450	-.01120	-.01580	.01620	.00000	.00000	.02660
.598	6.000	.01860	-.01240	-.01270	.01340	.00000	.00000	.02930
.598	8.000	.02630	-.01350	-.00360	.00540	.00000	.00000	.02950
.598	10.000	.03720	-.01700	.01320	-.00510	.00000	.00000	.03220
GRADIENT	.00398	.00398	-.00125	-.00026	.00061	.00000	.00000	-.00018

RUN NO. 4172/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06810	.01690	.05260	-.01580	.00000	.00000	.02980
.902	-8.000	-.05430	.01270	.03430	-.00590	.00000	.00000	.02950
.902	-6.000	-.04330	.01110	.01080	.00580	.00000	.00000	.02860
.902	-5.000	-.03610	.01000	.00100	.01130	.00000	.00000	.02950
.902	-4.000	-.03220	.00770	-.00410	.01290	.00000	.00000	.02990
.902	-2.000	-.02090	.00260	-.01030	.01370	.00000	.00000	.02740
.902	.000	-.01280	.00110	-.02210	.02310	.00000	.00000	.02950
.902	2.000	-.00450	-.00030	-.02570	.02670	.00000	.00000	.02940
.902	4.000	.00570	-.00610	-.01750	.02040	.00000	.00000	.02910
.902	5.000	.01190	-.00970	-.01360	.01770	.00000	.00000	.02900
.902	6.000	.01790	-.01270	-.00850	.01440	.00000	.00000	.03070
.902	8.000	.02880	-.01730	.00480	.00650	.00000	.00000	.03120
.902	10.000	.04100	-.02230	.02270	-.00340	.00000	.00000	.00000
GRADIENT	.00483	.00483	-.00178	-.00175	.00098	.00000	.00000	.00000

MSFC 570 (1A31F) (S3/2)/(Q31)/(T9) (U5)/(S3/2)

(R03R21) (14 SEP 75)

REFERENCE DATA

SRF = .9720 SQ. IN. XMRP = 2.5490 IN.
LRF = 5.3130 IN. YMRP = .0000 IN.
BRF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFTC = 401.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 4171/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.07510	.01970	.04970	-.01790	.00000	.00000	.02220
1.047	-8.000	-.06030	.01690	.02590	-.00590	.00000	.00000	.02070
1.047	-6.000	-.04740	.01450	.00370	.00380	.00000	.00000	.01960
1.047	-5.000	-.04170	.01370	-.00640	.01170	.00000	.00000	.01990
1.047	-4.000	-.03590	.01240	-.01510	.01750	.00000	.00000	.02020
1.047	-2.000	-.02500	.00930	-.02690	.02680	.00000	.00000	.02040
1.047	.000	-.01580	.00640	-.03040	.03150	.00000	.00000	.01950
1.047	2.000	-.00620	.00200	-.02700	.03020	.00000	.00000	.02030
1.047	4.000	.00690	-.00660	-.01770	.02250	.00000	.00000	.02000
1.047	5.000	.01290	-.00990	-.01340	.01830	.00000	.00000	.01960
1.047	6.000	.01940	-.01350	-.00830	.01430	.00000	.00000	.01930
1.047	8.000	.03340	-.02130	.00420	.00540	.00000	.00000	.01870
1.047	10.000	.04980	-.03020	.01960	-.00390	.00000	.00000	.02020
GRADIENT		.00535	-.00232	-.00051	.00064	.00000	.00000	-.00003

RUN NO. 4170/ 0 RN/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.08380	.01700	.06390	-.02220	.00000	.00000	.03410
1.246	-8.000	-.06390	.01250	.03330	-.00760	.00000	.00000	.03200
1.246	-6.000	-.04820	.00930	.00760	.00620	.00000	.00000	.03220
1.246	-5.000	-.04150	.00940	-.00340	.01280	.00000	.00000	.03310
1.246	-4.000	-.03520	.00730	-.01400	.02000	.00000	.00000	.03350
1.246	-2.000	-.02460	.00590	-.02930	.03210	.00000	.00000	.03280
1.246	.000	-.01710	.00560	-.03340	.03730	.00000	.00000	.03160
1.246	2.000	-.00920	.00400	-.03110	.03650	.00000	.00000	.03310
1.246	4.000	.00420	-.00380	-.02520	.03200	.00000	.00000	.03750
1.246	5.000	.01070	-.00740	-.02050	.02650	.00000	.00000	.03860
1.246	6.000	.01740	-.01090	-.01480	.02480	.00000	.00000	.03900
1.246	8.000	.03100	-.01690	-.00010	.01650	.00000	.00000	.03680
1.246	10.000	.04630	-.02500	.02210	.00380	.00000	.00000	.03760
GRADIENT		.00499	-.00141	-.00149	.00150	.00000	.00000	.00049

MSFC 570(1A31F)(S3/2)/(C3)/(79)(U3)/(S3/2)

(R03R21) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CRAFTG = 401.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4191/ 0 RNVL = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.11790	.04560	.06200	-.03390	.00000	.00000	.02280
1.967	-8.000	-.08400	.02810	.04790	-.02390	.00000	.00000	.02040
1.967	-6.000	-.05810	.01740	.02420	-.00970	.00000	.00000	.01970
1.967	-5.000	-.04910	.01520	.01150	-.00110	.00000	.00000	.01980
1.967	-4.000	-.04120	.01350	.00010	.00690	.00000	.00000	.02030
1.967	-2.000	-.02830	.01180	-.01590	.01970	.00000	.00000	.02150
1.967	.000	-.01920	.01220	-.02110	.02620	.00000	.00000	.02190
1.967	2.000	-.01390	.01470	-.01920	.02680	.00000	.00000	.02240
1.967	4.000	-.00290	.01160	-.01530	.02560	.00000	.00000	.02280
1.967	5.000	.00370	.00900	-.00930	.02170	.00000	.00000	.02290
1.967	6.000	.01110	.00620	-.00150	.01690	.00000	.00000	.02330
1.967	8.000	.02800	.00040	.01930	.00380	.00000	.00000	.02480
1.967	10.000	.03420	-.01190	.04180	-.00390	.00000	.00000	.02680
GRADIENT	.00496	-.00036	-.00191	-.00226	.00226	.00000	.00000	.00030

RUN NO. 4156/ 0 RNVL = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.10160	-.00440	.02960	.00320	.00000	.00000	.01060
3.480	-8.000	-.08350	-.00360	.02470	.00180	.00000	.00000	.01090
3.480	-6.000	-.06450	-.00350	.01990	.00030	.00000	.00000	.01020
3.480	-5.000	-.05430	-.00360	.01460	.00080	.00000	.00000	.00940
3.480	-4.000	-.04490	-.00350	.00810	.00210	.00000	.00000	.00970
3.480	-2.000	-.02870	-.00220	-.00620	.00600	.00000	.00000	.00920
3.480	.000	-.01650	.00010	-.01640	.01010	.00000	.00000	.00970
3.480	2.000	-.00720	.00350	-.01800	.01240	.00000	.00000	.00990
3.480	4.000	.00130	.00680	-.01060	.01090	.00000	.00000	.01010
3.480	5.000	.00640	.00850	-.00480	.00960	.00000	.00000	.00920
3.480	6.000	.01300	.00960	.00060	.00850	.00000	.00000	.00890
3.480	8.000	.03100	.00990	.01040	.00630	.00000	.00000	.00900
3.480	10.000	.04980	.01040	.01700	.00620	.00000	.00000	.00910
GRADIENT	.00590	.00126	-.00217	-.00217	.00102	.00000	.00000	.00000

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONF10 = 401.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBTNC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4181/ 0 RVL = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.590	-10.000	-.06070	.01560	.03310	-.01810	.00000	.00000	.03290
.590	-6.000	-.04820	.01250	.01030	-.00410	.00000	.00000	.02940
.590	-6.000	-.03620	.00780	-.00330	.00350	.00000	.00000	.03000
.590	-5.000	-.02870	.00360	-.01020	.00810	.00000	.00000	.02860
.590	-4.000	-.02240	.00090	-.01460	.01130	.00000	.00000	.02780
.590	-2.000	-.01350	-.00150	-.02100	.01820	.00000	.00000	.02740
.590	.000	-.00630	-.00270	-.02300	.02150	.00000	.00000	.02490
.590	2.000	.00100	-.00480	-.01940	.01990	.00000	.00000	.02780
.590	4.000	.00920	-.00840	-.01480	.01550	.00000	.00000	.02800
.590	5.000	.01280	-.00940	-.01390	.01430	.00000	.00000	.02800
.590	6.000	.01660	-.01040	-.01170	.01210	.00000	.00000	.02830
.590	8.000	.02470	-.01230	-.00290	.00490	.00000	.00000	.02950
.590	10.000	.03480	-.01520	.01260	-.00500	.00000	.00000	.02950
GRADIENT	.00403	-.00122	-.00017	-.00017	.00057	.00000	.00000	-.00002

RUN NO. 4180/ 0 RVL = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.06840	.01690	.03890	-.01910	.00000	.00000	.03080
.899	-8.000	-.05600	.01450	.03630	-.00820	.00000	.00000	.02910
.899	-6.000	-.04430	.01220	.01370	.00290	.00000	.00000	.02920
.899	-5.000	-.03890	.01070	.00460	.00790	.00000	.00000	.02980
.899	-4.000	-.03410	.00960	-.00420	.01300	.00000	.00000	.02850
.899	-2.000	-.02450	.00640	-.01320	.01870	.00000	.00000	.02800
.899	.000	-.01440	.00180	-.01600	.01770	.00000	.00000	.02840
.899	2.000	-.00660	.00090	-.02340	.02660	.00000	.00000	.02830
.899	4.000	.00370	-.00410	-.01750	.02040	.00000	.00000	.02900
.899	5.000	.01020	-.00810	-.01270	.01720	.00000	.00000	.02940
.899	6.000	.01640	-.01150	-.00710	.01370	.00000	.00000	.02950
.899	8.000	.02720	-.01610	.00610	.00560	.00000	.00000	.03040
.899	10.000	.03920	-.02110	.02490	-.00430	.00000	.00000	.03000
GRADIENT	.00481	-.00179	-.00179	-.00179	.00102	.00000	.00000	.00002



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(03)/(19) (U5)/(S3/2)

(R03R22) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF16 = 401.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4179/ 0 RIVL = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.045	-10.000	-.07740	.02140	.05370	-.01930	.00000	.00000	.02090
1.045	-8.000	-.06160	.01770	.02860	-.00800	.00000	.00000	.01960
1.045	-6.000	-.04830	.01320	.00330	.00410	.00000	.00000	.01910
1.045	-5.000	-.04240	.01420	-.00330	.01080	.00000	.00000	.01930
1.045	-4.000	-.03680	.01310	-.01480	.01720	.00000	.00000	.02030
1.045	-2.000	-.02640	.01030	-.02740	.02730	.00000	.00000	.02090
1.045	.000	-.01700	.00720	-.03030	.03140	.00000	.00000	.01940
1.045	2.000	-.00750	.00270	-.02700	.03000	.00000	.00000	.02020
1.045	4.000	.00300	-.00490	-.01740	.02200	.00000	.00000	.02000
1.045	5.000	.01120	-.00870	-.01300	.01830	.00000	.00000	.01970
1.045	6.000	.01770	-.01250	-.00790	.01470	.00000	.00000	.01960
1.045	8.000	.03140	-.01990	.00430	.00360	.00000	.00000	.01990
1.045	10.000	.04810	-.02890	.02080	-.00440	.00000	.00000	.01940
1.045	GRADIENT	.00326	-.00224	-.00033	.00070	.00000	.00000	-.00002

RUN NO. 4178/ 0 RIVL = 5.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.06520	.01940	.06470	-.02470	.00000	.00000	.03320
1.250	-8.000	-.06540	.01440	.03370	-.01040	.00000	.00000	.03120
1.250	-6.000	-.04980	.01120	.01060	.00320	.00000	.00000	.03080
1.250	-5.000	-.04290	.00990	-.00030	.01010	.00000	.00000	.03170
1.250	-4.000	-.03630	.00880	-.01130	.01770	.00000	.00000	.03240
1.250	-2.000	-.02630	.00760	-.02780	.03060	.00000	.00000	.03260
1.250	.000	-.01940	.00790	-.03260	.03620	.00000	.00000	.03160
1.250	2.000	-.01130	.00600	-.03040	.03390	.00000	.00000	.03240
1.250	4.000	.00200	-.00200	-.02510	.03190	.00000	.00000	.03720
1.250	5.000	.00830	-.00380	-.02060	.02970	.00000	.00000	.03820
1.250	6.000	.01510	-.00910	-.01470	.02500	.00000	.00000	.03830
1.250	8.000	.02830	-.01440	.00190	.01990	.00000	.00000	.03670
1.250	10.000	.04620	-.02280	.02120	.00630	.00000	.00000	.03760
1.250	GRADIENT	.00490	-.00139	-.00180	.00176	.00000	.00000	.00057

(R63R22) (14 SEP 73)

MSFC 570 (1A31F) (S3/2) / (O3) / (T9) (U5) / (S3/2)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF10 = 451.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4192/ 0 RVL = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.980	-10.000	-12200	.04910	.06600	-.03770	.00000	.00000	.02330
1.980	-8.000	-.08700	.03120	.05120	-.02930	.00000	.00000	.01960
1.980	-6.000	-.06020	.01930	.02760	-.01350	.00000	.00000	.01790
1.980	-5.000	-.03080	.01640	.01320	-.00490	.00000	.00000	.01750
1.980	-4.000	-.04240	.01450	.00390	.00320	.00000	.00000	.01760
1.980	-2.000	-.02980	.01290	-.01270	.01690	.00000	.00000	.01670
1.980	.000	-.02140	.01380	-.01940	.02400	.00000	.00000	.02010
1.990	2.000	-.01490	.01370	-.01590	.02450	.00000	.00000	.02020
1.990	4.000	-.00350	.01440	-.01410	.02450	.00000	.00000	.02220
1.990	5.000	.00100	.01190	-.00910	.02070	.00000	.00000	.02230
1.990	6.000	.00960	.00870	-.00540	.01390	.00000	.00000	.02260
1.990	8.000	.02640	.00120	-.01990	.00400	.00000	.00000	.02420
1.990	10.000	.05500	-.01350	.04100	-.00840	.00000	.00000	.02520
GRADIENT		.00494	-.00021	-.00219	.00254	.00000	.00000	.00000

RUN NO. 4157/ 0 RVL = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.490	-10.000	-10490	-.00340	.03160	.00270	.00000	.00000	.01060
3.490	-8.000	-.09750	-.00260	.02620	.00130	.00000	.00000	.01060
3.490	-6.000	-.06750	-.00270	.02250	-.00030	.00000	.00000	.01040
3.490	-5.000	-.05720	-.00280	.01750	.00000	.00000	.00000	.00990
3.490	-4.000	-.04750	-.00280	.01140	.00000	.00000	.00000	.00950
3.490	-2.000	-.03090	-.00140	-.00370	.00480	.00000	.00000	.00790
3.490	.000	-.01870	.00090	-.01430	.00930	.00000	.00000	.00830
3.490	2.000	-.00110	.00430	-.01720	.01210	.00000	.00000	.00990
3.490	4.000	.00400	.00920	-.00970	.01090	.00000	.00000	.00990
3.490	5.000	.01060	.01020	-.00470	.01020	.00000	.00000	.00950
3.490	6.000	.01060	.01130	.00040	.00940	.00000	.00000	.00880
3.490	8.000	.02430	.01170	.01120	.00740	.00000	.00000	.00860
3.490	10.000	.04730	.01210	.01990	.00710	.00000	.00000	.00790
GRADIENT		.00595	.00134	-.00249	.00117	.00000	.00000	.00000



WSFC 570 (1A31F) (S3/2) / (O3) / (T9) (U5) / (S3/2)

(R03R23) (14 SEP 73)

REFERENCE DATA

SREF = .9780 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 401.000
 DELTA2 = .280 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPAD1A = .000
 SPAGAP = .000

RUN NO. 4168/ 0 RIVL = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.000	-.05880	-.01830	.02620	.00220	.00000	.00000	.03360
.998	-8.000	-.04390	-.01330	.00440	.00390	.00000	.00000	.03340
.998	-6.000	-.03340	-.01300	-.01170	.00470	.00000	.00000	.03210
.998	-5.000	-.02390	-.01240	-.01360	.00450	.00000	.00000	.03050
.998	-4.000	-.01940	-.01170	-.01970	.00310	.00000	.00000	.02960
.998	-2.000	-.00910	-.01000	-.02390	.00790	.00000	.00000	.02930
.998	.000	.00020	-.00610	-.02630	.00960	.00000	.00000	.02910
.998	2.000	.00820	-.00630	-.02330	.00930	.00000	.00000	.02970
.998	4.000	.01610	-.00310	-.02030	.00760	.00000	.00000	.02950
.998	5.000	.02010	-.00440	-.01730	.00610	.00000	.00000	.03000
.998	6.000	.02420	-.00330	-.01330	.00430	.00000	.00000	.03030
.998	8.000	.03280	-.00070	-.00190	.00110	.00000	.00000	.03040
.998	10.000	.04210	.00230	.01630	-.00030	.00000	.00000	.03160
GRADIENT		.00432	.00092	-.00005	.00224	.00000	.00000	-.00002

RUN NO. 4167/ 0 RIVL = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06350	-.02100	.05470	.01470	.00000	.00000	.03240
.902	-8.000	-.05320	-.01630	.03140	.01270	.00000	.00000	.03050
.902	-6.000	-.04190	-.01210	.00900	.01200	.00000	.00000	.03070
.902	-5.000	-.03360	-.01090	-.00860	.01210	.00000	.00000	.03110
.902	-4.000	-.02670	-.01060	-.00630	.01110	.00000	.00000	.02990
.902	-2.000	-.01370	-.01090	-.01260	.00900	.00000	.00000	.02630
.902	.000	-.00630	-.00830	-.02160	.01140	.00000	.00000	.02760
.902	2.000	.00280	-.00570	-.02700	.01230	.00000	.00000	.03020
.902	4.000	.01340	-.00520	-.01840	.01100	.00000	.00000	.02990
.902	5.000	.01620	-.00410	-.01420	.01030	.00000	.00000	.02920
.902	6.000	.02310	-.00320	-.00920	.00990	.00000	.00000	.02960
.902	8.000	.03290	-.00190	.00310	.00930	.00000	.00000	.03070
.902	10.000	.04340	.00000	.02340	.00950	.00000	.00000	.03230
GRADIENT		.00327	.00073	-.00160	-.00003	.00000	.00000	-.00006

MSFC 570 (1A31F) (S3/2) / (O3) / (T9) (U5) / (S3/2)

(R43R23) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 401.000
DELTAZ = .280 RUDDER = .000
X-SRB = .000 CRBINC = -.300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4168/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.07440	-.02190	.04340	.01100	.00000	.00000	.02310
1.049	-8.000	-.05930	-.01660	.02030	.00990	.00000	.00000	.02240
1.049	-6.000	-.04590	-.01170	-.00100	.00970	.00000	.00000	.02090
1.049	-5.000	-.03940	-.00960	-.01140	.01020	.00000	.00000	.02120
1.049	-4.000	-.03330	-.00790	-.01930	.01100	.00000	.00000	.02110
1.049	-3.000	-.02240	-.00500	-.02920	.01330	.00000	.00000	.01970
1.049	2.000	-.01250	-.00290	-.03150	.01340	.00000	.00000	.01900
1.049	4.000	.00110	-.00290	-.02970	.01360	.00000	.00000	.01940
1.049	5.000	.01130	-.00360	-.01990	.01250	.00000	.00000	.01880
1.049	6.000	.01680	-.00340	-.01630	.01150	.00000	.00000	.01830
1.049	8.000	.02280	-.00320	-.01130	.01040	.00000	.00000	.01810
1.049	8.000	.03610	-.00250	.00310	.01010	.00000	.00000	.01920
1.049	10.000	.04960	-.00190	.02510	.00990	.00000	.00000	.02000
GRADIENT		.00559	.00058	-.00027	.00019	.00000	.00000	-.00026

RUN NO. 4169/ 0 RN/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.09060	-.02880	.05940	.01400	.00000	.00000	.03250
1.253	-8.000	-.06090	-.02220	.02550	.01220	.00000	.00000	.03250
1.253	-6.000	-.04560	-.01670	-.00140	.01200	.00000	.00000	.03290
1.253	-5.000	-.03850	-.01420	-.00960	.01290	.00000	.00000	.03290
1.253	-4.000	-.03230	-.01160	-.01870	.01430	.00000	.00000	.03240
1.253	-2.000	-.02200	-.00690	-.03290	.01790	.00000	.00000	.03160
1.253	.000	-.01370	-.00290	-.03500	.02000	.00000	.00000	.03190
1.253	2.000	-.00460	-.00090	-.03320	.01960	.00000	.00000	.03290
1.253	4.000	.00930	-.00210	-.02460	.01740	.00000	.00000	.03570
1.253	5.000	.01460	-.00150	-.02040	.01660	.00000	.00000	.03560
1.253	6.000	.02050	-.00060	-.01490	.01620	.00000	.00000	.03660
1.253	8.000	.03320	.00160	.00000	.01660	.00000	.00000	.03540
1.253	10.000	.04890	.00410	.02410	.01910	.00000	.00000	.03700
GRADIENT		.00517	.00126	-.00097	.00039	.00000	.00000	.00043

MSFC 370 (1A31F) (S3/2)/(03)/(T9) (U5)/(S3/2)

(R03R23) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 401.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4193/ 0 RML = 6.96 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.965	-10.000	-1.1110	.03790	.06090	-.03350	.00000	.00000	.02370
1.965	-8.000	-.07700	.02090	.04460	-.02370	.00000	.00000	.02030
1.965	-6.000	-.03260	.01200	.02020	-.00680	.00000	.00000	.01940
1.965	-5.000	-.04340	.00990	.00700	.00220	.00000	.00000	.01970
1.965	-4.000	-.03530	.00820	-.00460	.01060	.00000	.00000	.01970
1.965	-2.000	-.02250	.00650	-.02060	.02350	.00000	.00000	.01990
1.965	.000	-.01360	.00680	-.02460	.02990	.00000	.00000	.02080
1.965	2.000	-.00470	.00390	-.02230	.02860	.00000	.00000	.02140
1.965	4.000	.00500	.00440	-.01550	.02450	.00000	.00000	.02310
1.965	5.000	.01130	.00260	-.01050	.02150	.00000	.00000	.02290
1.965	6.000	.01850	.00030	-.00350	.01720	.00000	.00000	.02310
1.965	8.000	.03590	-.00370	.01720	.00430	.00000	.00000	.02480
1.965	10.000	.05930	-.01470	.04290	-.01120	.00000	.00000	.02650
GRADIENT		.00523	-.00059	-.00149	.00190	.00000	.00000	.00036

RUN NO. 4198/ 0 RML = 7.05 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.0060	-.00430	.02740	.00370	.00000	.00000	.01060
3.480	-8.000	-.08300	-.00310	.02300	.00210	.00000	.00000	.01080
3.480	-6.000	-.06360	-.00260	.01680	.00130	.00000	.00000	.01040
3.480	-5.000	-.05350	-.00270	.01140	.00170	.00000	.00000	.01080
3.480	-4.000	-.04430	-.00250	.00510	.00300	.00000	.00000	.01070
3.480	-2.000	-.02840	-.00120	-.00820	.00690	.00000	.00000	.00820
3.480	.000	-.01610	.00140	-.01720	.01050	.00000	.00000	.00940
3.480	2.000	-.00620	.00460	-.01680	.01190	.00000	.00000	.00990
3.480	4.000	.00490	.00690	-.00930	.01010	.00000	.00000	.00960
3.480	5.000	.01020	.00870	-.00400	.00890	.00000	.00000	.00940
3.480	6.000	.01650	.01020	.00140	.00770	.00000	.00000	.00830
3.480	8.000	.03260	.01180	.01270	.00530	.00000	.00000	.00990
3.480	10.000	.05230	.01160	.02200	.00440	.00000	.00000	.00830
GRADIENT		.00622	.00118	-.00169	.00063	.00000	.00000	-.00016

HSPC 370 (1A31F) (S3/2)/(O3)/(T9) (U5)/(S3/2)

(R3R24) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 SREF = 5.3130 IN.
 SCALE = .0040

XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

PARAMETRIC DATA

BETA = .000 CONFIG = 401.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBTNC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4174/ 0 RN/L = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.589	-10.000	-.06060	.01580	.02900	-.01340	.00000	.00000	.03230
.589	-8.000	-.04900	.01190	.00360	.00070	.00000	.00000	.03100
.589	-6.000	-.03510	.00690	-.01010	.01020	.00000	.00000	.03150
.589	-5.000	-.02890	.00280	-.01430	.01210	.00000	.00000	.03120
.589	-4.000	-.02000	-.00030	-.01940	.01490	.00000	.00000	.03020
.589	-3.000	-.01040	-.00350	-.02510	.02160	.00000	.00000	.02760
.589	-2.000	-.00200	-.00600	-.02900	.02330	.00000	.00000	.02460
.589	2.000	.00570	-.00820	-.02370	.02290	.00000	.00000	.02900
.589	4.000	.01320	-.01140	-.01950	.01940	.00000	.00000	.02980
.589	5.000	.01770	-.01320	-.01550	.01530	.00000	.00000	.02940
.589	6.000	.02210	-.01450	-.01160	.01160	.00000	.00000	.02910
.589	8.000	.03050	-.01650	-.00040	.00240	.00000	.00000	.03070
.589	10.000	.04050	-.01930	.01600	-.00940	.00000	.00000	.03370
GRADIENT		.00431	-.00149	-.00009	.00036	.00000	.00000	-.00019

RUN NO. 4175/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06900	.01750	.05560	-.01670	.00000	.00000	.03120
.902	-8.000	-.05700	.01590	.03240	-.00540	.00000	.00000	.02940
.902	-6.000	-.04400	.01240	.00970	.00620	.00000	.00000	.02970
.902	-5.000	-.03730	.00970	-.00010	.01210	.00000	.00000	.03030
.902	-4.000	-.03090	.00660	-.00350	.01400	.00000	.00000	.02960
.902	-3.000	-.01900	.00040	-.01090	.01410	.00000	.00000	.02860
.902	-2.000	-.00910	-.00240	-.01990	.02100	.00000	.00000	.02720
.902	2.000	-.00230	-.00410	-.02720	.02760	.00000	.00000	.02910
.902	4.000	.01010	-.00930	-.01910	.02110	.00000	.00000	.02750
.902	5.000	.01510	-.01160	-.01450	.01900	.00000	.00000	.02850
.902	6.000	.02020	-.01390	-.00900	.01450	.00000	.00000	.02950
.902	8.000	.03030	-.01780	-.00430	.00690	.00000	.00000	.03170
.902	10.000	.04140	-.02210	.02460	-.00370	.00000	.00000	.03200
GRADIENT		.00514	-.00199	-.00175	.00094	.00000	.00000	-.00014



NSFC 570 (TA31F) (S3/2) (O3) / (T9) (U3) / (S3/2)

(R03R24) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 401.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4176/ 0 RVL = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.07660	.02150	.04660	-.01940	.00000	.00000	.02180
1.050	-8.000	-.06110	.01790	.02330	-.00380	.00000	.00000	.01990
1.050	-6.000	-.04740	.01500	.00980	.00810	.00000	.00000	.01950
1.050	-5.000	-.04100	.01370	-.00960	.01440	.00000	.00000	.01950
1.050	-4.000	-.03490	.01210	-.01600	.02000	.00000	.00000	.01950
1.050	-2.000	-.02380	.00870	-.02810	.02800	.00000	.00000	.01810
1.050	.000	-.01390	.00510	-.03050	.03190	.00000	.00000	.01610
1.050	2.000	-.00270	-.00090	-.02860	.03170	.00000	.00000	.01910
1.050	4.000	.01040	-.00940	-.01870	.02270	.00000	.00000	.01750
1.050	5.000	.01540	-.01190	-.01460	.01930	.00000	.00000	.01730
1.050	6.000	.02120	-.01490	-.00980	.01560	.00000	.00000	.01740
1.050	8.000	.03510	-.02220	.00230	.00680	.00000	.00000	.01830
1.050	10.000	.05080	-.03030	.01950	-.00370	.00000	.00000	.01930
GRADIENT	.00562	-.00259	-.00032	.00047	.00000	.00000	.00000	-.00019

RUN NO. 4177/ 0 RVL = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.243	-10.000	-.08320	.01740	.06000	-.02020	.00000	.00000	.03320
1.243	-8.000	-.06350	.01280	.03080	-.00390	.00000	.00000	.03290
1.243	-6.000	-.04810	.00980	.00600	.00740	.00000	.00000	.03300
1.243	-5.000	-.04110	.00860	-.00500	.01410	.00000	.00000	.03300
1.243	-4.000	-.03470	.00760	-.01560	.02130	.00000	.00000	.03290
1.243	-2.000	-.02400	.00610	-.03060	.03310	.00000	.00000	.03290
1.243	.000	-.01610	.00370	-.03430	.03750	.00000	.00000	.03260
1.243	2.000	-.00780	.00400	-.03240	.03700	.00000	.00000	.03370
1.243	4.000	.00380	-.00420	-.02430	.03100	.00000	.00000	.03660
1.243	5.000	.01150	-.00690	-.01930	.02740	.00000	.00000	.03690
1.243	8.000	.01750	-.00910	-.01320	.02360	.00000	.00000	.03640
1.243	10.000	.02910	-.01280	.00170	.01590	.00000	.00000	.03600
GRADIENT	.00506	-.00143	-.00122	.00000	.00000	.00000	.00000	.00000

MSFC 570 (1A31F) (S3/2) (031/179) (U51/193/2)

(R63R24) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 401.000
 DELTAZ = .260 RUDDER = .000
 X-SRB = .000 CRGINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4194/ 0 RVL = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.968	-10.000	-.10970	.03830	.06090	-.03410	.00000	.00000	.02270
1.966	-8.000	-.07930	.02390	.04650	-.02390	.00000	.00000	.02090
1.964	-6.000	-.05530	.01590	.02190	-.00840	.00000	.00000	.01890
1.962	-5.000	-.04680	.01300	.00870	.00340	.00000	.00000	.01800
1.960	-4.000	-.03890	.01150	-.00230	.00870	.00000	.00000	.01840
1.958	-2.000	-.02860	.01030	-.01820	.02190	.00000	.00000	.01990
1.968	.000	-.01740	.01050	-.02330	.02820	.00000	.00000	.01920
1.966	2.000	-.00930	.01050	-.02140	.02440	.00000	.00000	.01990
1.964	4.000	.00120	.00780	-.01900	.02370	.00000	.00000	.02310
1.962	5.000	.00750	.00570	-.00930	.02370	.00000	.00000	.02320
1.960	6.000	.01460	.00330	-.00190	.01610	.00000	.00000	.02200
1.958	8.000	.03050	-.00080	.01840	.00400	.00000	.00000	.02440
1.968	10.000	.05980	-.01310	.04200	-.00980	.00000	.00000	.02590
GRADIENT		.00517	-.00037	-.00163	.00197	.00000	.00000	.00044

RUN NO. 4199/ 0 RVL = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10320	-.00280	.02890	.00330	.00000	.00000	.01040
3.480	-8.000	-.08590	-.00130	.02430	.00170	.00000	.00000	.01090
3.480	-6.000	-.06670	-.00120	.01830	.00040	.00000	.00000	.01070
3.480	-5.000	-.05680	-.00110	.01290	.00150	.00000	.00000	.01060
3.480	-4.000	-.04750	-.00090	.00640	.00290	.00000	.00000	.01040
3.480	-2.000	-.03120	.00000	-.00740	.00650	.00000	.00000	.01010
3.480	.000	-.01870	.00290	-.01670	.01020	.00000	.00000	.01000
3.480	2.000	-.00890	.00620	-.01670	.01160	.00000	.00000	.00980
3.480	4.000	.00260	.00850	-.00930	.01090	.00000	.00000	.00940
3.480	5.000	.00700	.01050	-.00280	.00900	.00000	.00000	.00900
3.480	6.000	.01300	.01200	.00320	.00790	.00000	.00000	.00860
3.480	8.000	.03010	.01300	.01400	.00560	.00000	.00000	.00830
3.480	10.000	.05030	.01270	.02280	.00490	.00000	.00000	.00810
GRADIENT		.00627	.00120	-.00177	.00585	.00000	.00000	-.00024



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) / (03) / (T9) (US) / (S3/2)

(R83R25) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 401.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBTNC = 1.500
 SPACER = .000 SPAOTA = .000
 SPACAP = .000

RUN NO. 4182/ D RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.595	-10.000	-.06250	.01760	.03050	-.01600	.00000	.00000	.03130
.595	-8.000	-.04820	.01240	.01070	-.00370	.00000	.00000	.03020
.595	-6.000	-.03450	.00620	-.00170	.00250	.00000	.00000	.02970
.595	-5.000	-.02810	.00340	-.00040	.00770	.00000	.00000	.02820
.595	-4.000	-.02240	.00130	-.01550	.01210	.00000	.00000	.02760
.595	-2.000	-.01290	-.00160	-.02210	.01450	.00000	.00000	.02690
.595	.000	-.00420	-.00430	-.02260	.02100	.00000	.00000	.02630
.595	2.000	.00320	-.00620	-.02190	.02110	.00000	.00000	.02930
.595	4.000	.01100	-.00940	-.01740	.01690	.00000	.00000	.02770
.595	5.000	.01450	-.01030	-.01550	.01440	.00000	.00000	.02900
.595	6.000	.01850	-.01140	-.01120	.01100	.00000	.00000	.02950
.595	8.000	.02800	-.01440	.00040	.00120	.00000	.00000	.02990
.595	10.000	.03720	-.01660	.01870	-.01000	.00000	.00000	.03190
GRADIENT	.00421	-.00134	-.00040	-.00040	.00064	.00000	.00000	.00000

RUN NO. 4183/ D RN/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.906	-10.000	-.06950	.01870	.05700	-.01860	.00000	.00000	.03090
.906	-8.000	-.05580	.01460	.03500	-.00760	.00000	.00000	.02910
.906	-6.000	-.04380	.01200	.01030	.00550	.00000	.00000	.02950
.906	-5.000	-.03920	.01130	-.00040	.01170	.00000	.00000	.03040
.906	-4.000	-.03350	.00870	-.00550	.01300	.00000	.00000	.02920
.906	-2.000	-.02090	.00250	-.00870	.01140	.00000	.00000	.02530
.906	.000	-.01130	-.00060	-.01760	.01890	.00000	.00000	.02370
.906	2.000	-.00290	-.00200	-.02630	.02660	.00000	.00000	.02470
.906	4.000	.00750	-.00720	-.01790	.02030	.00000	.00000	.02960
.906	5.000	.01280	-.01010	-.01250	.01660	.00000	.00000	.02770
.906	6.000	.01810	-.01260	-.00670	.01300	.00000	.00000	.02770
.906	8.000	.02890	-.01680	.00570	.00610	.00000	.00000	.03070
.906	10.000	.04020	-.02150	.02450	-.00260	.00000	.00000	.03030
GRADIENT	.00511	-.00198	-.00161	-.00161	.00093	.00000	.00000	-.00010

(R03R25) (14 SEP 73)

NSFC 570 (1A31F) (S3/2) / (O3) / (TS) (US) / (S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRCP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 CONFIG = 401.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 GRINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4184/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.052	-10.000	-.07910	.02340	.05090	-.01760	.00000	.00000	.02260
1.052	-9.000	-.06270	.01930	.02390	-.00600	.00000	.00000	.01990
1.052	-6.000	-.04860	.01610	.00270	.00620	.00000	.00000	.01910
1.052	-5.000	-.04270	.01490	-.00750	.01230	.00000	.00000	.01930
1.052	-4.000	-.03640	.01320	-.01630	.01920	.00000	.00000	.01940
1.052	-2.000	-.02490	.00960	-.02740	.02720	.00000	.00000	.01990
1.052	.000	-.01570	.00640	-.02930	.03080	.00000	.00000	.01760
1.052	2.000	-.00400	.00030	-.02910	.03050	.00000	.00000	.01950
1.052	4.000	.00690	-.00820	-.01940	.02340	.00000	.00000	.01930
1.052	5.000	.01430	-.01100	-.01470	.01950	.00000	.00000	.01970
1.052	6.000	.02020	-.01410	-.00930	.01540	.00000	.00000	.01950
1.052	8.000	.03390	-.02110	.00350	.00630	.00000	.00000	.01930
1.052	10.000	.04920	-.02990	.02110	-.00460	.00000	.00000	.02030
GRADIENT		.00564	-.00260	-.00055	.00071	.00000	.00000	-.00002

RUN NO. 4185/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.248	-10.000	-.08320	.01940	.06220	-.02300	.00000	.00000	.03340
1.248	-8.000	-.06510	.01440	.03400	-.00920	.00000	.00000	.03200
1.248	-6.000	-.04950	.01140	.00880	.00430	.00000	.00000	.03160
1.248	-5.000	-.04270	.01030	-.00240	.01120	.00000	.00000	.03210
1.248	-4.000	-.03640	.00330	-.01310	.01850	.00000	.00000	.03250
1.248	-2.000	-.02590	.00790	-.02930	.03070	.00000	.00000	.03230
1.248	.000	-.01790	.00740	-.03270	.03600	.00000	.00000	.03150
1.248	2.000	-.01000	.00390	-.03100	.03590	.00000	.00000	.03270
1.248	4.000	.00350	-.00220	-.02460	.03120	.00000	.00000	.03530
1.248	5.000	.00880	-.00440	-.01940	.02750	.00000	.00000	.03610
1.248	6.000	.01430	-.00550	-.01330	.02390	.00000	.00000	.03650
1.248	8.000	.02590	-.00970	.00140	.01680	.00000	.00000	.03600
1.248	10.000	.04130	-.01560	.02460	.00590	.00000	.00000	.03700
GRADIENT		.00499	-.00137	-.00152	.00159	.00000	.00000	.00036



MSFC 370 (1A31F) (S3/2)/(O3)/(T9) (US)/(S3/2)

(R03R25) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 401.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4193/ 0 RVL = 7.02 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.979	-10.000	-.11990	.04360	.06140	-.03400	.00000	.00000	.02360
1.979	-6.000	-.06310	.02740	.04620	-.02540	.00000	.00000	.02100
1.979	-6.000	-.05790	.01730	.02260	-.00970	.00000	.00000	.01860
1.979	-5.000	-.04840	.01480	.01040	-.00130	.00000	.00000	.01740
1.979	-4.000	-.04040	.01310	-.00060	.00690	.00000	.00000	.01700
1.979	-2.000	-.02810	.01190	-.01650	.02020	.00000	.00000	.01740
1.979	.000	-.01910	.01220	-.02160	.02690	.00000	.00000	.01800
1.979	2.000	-.01130	.01230	-.02040	.02730	.00000	.00000	.01990
1.979	4.000	-.00220	.01260	-.01460	.02440	.00000	.00000	.02330
1.979	5.000	.00330	.01140	-.00900	.02120	.00000	.00000	.02360
1.979	6.000	.01060	.00920	-.00120	.01670	.00000	.00000	.02390
1.979	8.000	.02900	.00190	.02150	.00260	.00000	.00000	.02310
1.979	10.000	.05650	-.01200	.04240	-.01000	.00000	.00000	.02650
GRADIENT	.00495	-.00020	-.00179	.00219	.00000	.00000	.00000	.00069

RUN NO. 4180/ 0 RVL = 7.01 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10760	-.00070	.03090	.00240	.00000	.00000	.01030
3.480	-6.000	-.08960	.00000	.02330	.00150	.00000	.00000	.01030
3.480	-6.000	-.07020	.00040	.01940	.00050	.00000	.00000	.01050
3.480	-5.000	-.06010	.00040	.01380	.00120	.00000	.00000	.01040
3.480	-4.000	-.05050	.00050	.00710	.00250	.00000	.00000	.01030
3.480	-2.000	-.03340	.00130	-.00720	.00630	.00000	.00000	.00990
3.480	.000	-.02150	.00420	-.01630	.01020	.00000	.00000	.01000
3.480	2.000	-.01210	.00750	-.01650	.01190	.00000	.00000	.01000
3.480	4.000	-.00170	.01000	-.00890	.01020	.00000	.00000	.00990
3.480	5.000	.00360	.01220	-.00300	.00920	.00000	.00000	.00790
3.480	6.000	.01030	.01370	.00280	.00820	.00000	.00000	.00740
3.480	8.000	.02790	.01420	.01390	.00610	.00000	.00000	.00920
3.480	10.000	.04750	.01440	.02300	.00500	.00000	.00000	.00950
GRADIENT	.00618	.00122	-.00185	.00091	.00000	.00000	.00000	-.00020

MSFC 570 (1A31F) (S3/2) (OS) / (TS) (US) / (S3/2)

(R93R26) (14 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

ALPHA = .000
 DELTA Z = .140
 X-SRB = .000
 SPACER = .000
 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4189/ 0 RVL = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
.598	-10.000	.01820	-.02200	-.00310	.01320	.00000	.00000	.02940
.598	-8.000	.01420	-.01880	-.00140	.00920	.00000	.00000	.02750
.598	-6.000	.00800	-.01480	-.00220	.00790	.00000	.00000	.02600
.598	-4.000	.00350	-.01190	-.00350	.01100	.00000	.00000	.02590
.598	-2.000	.00070	-.00830	-.01560	.01540	.00000	.00000	.02730
.598	.000	-.00540	-.00370	-.02440	.02300	.00000	.00000	.02990
.598	2.000	-.01370	.00250	-.03230	.02920	.00000	.00000	.02930
.598	4.000	-.02060	.00760	-.03840	.03390	.00000	.00000	.02830
.598	6.000	-.03100	.01310	-.04810	.04100	.00000	.00000	.02930
.598	8.000	-.03870	.02050	-.05530	.04630	.00000	.00000	.02850
.598	10.000	-.04310	.02270	-.05790	.04960	.00000	.00000	.02770
	GRADIENT	-.00333	.00249	-.00392	.00292	.00000	.00000	.00034

RUN NO. 4188/ 0 RVL = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
.901	-10.000	.00910	-.01600	-.00610	.01610	.00000	.00000	.02520
.901	-8.000	.00680	-.01390	-.00310	.01260	.00000	.00000	.02480
.901	-6.000	.00360	-.01070	-.00480	.01170	.00000	.00000	.02500
.901	-4.000	-.00030	-.00790	-.01330	.01800	.00000	.00000	.02700
.901	-2.000	-.00840	-.00150	-.01830	.02120	.00000	.00000	.02930
.901	.000	-.01410	.00220	-.01970	.02090	.00000	.00000	.02620
.901	2.000	-.02540	.01240	-.03270	.03160	.00000	.00000	.03170
.901	4.000	-.03330	.01780	-.03970	.03710	.00000	.00000	.03270
.901	6.000	-.04140	.02340	-.04740	.04330	.00000	.00000	.03350
.901	8.000	-.05010	.02890	-.05530	.05000	.00000	.00000	.03340
.901	10.000	-.06030	.03550	-.06430	.05750	.00000	.00000	.03640
	GRADIENT	-.00413	.00326	-.00335	.00243	.00000	.00000	.00069



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (S3/2) (Q3) (T8) (U5) (S3/2)

(R83R26) (14 SEP 73)

REFERENCE DATA

BRP = .9720 SQ. IN XMRP = 2.5490 IN.
 LRP = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF16 = 401.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4187/ 0 RVL = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.034	-10.000	.01740	-.02130	-.01430	.02400	.00000	.00000	.01690
1.034	-8.000	.01360	-.01860	-.01180	.02110	.00000	.00000	.01640
1.034	-6.000	.00900	-.01330	-.01170	.01920	.00000	.00000	.01770
1.034	-4.000	.00310	-.01070	-.01790	.02260	.00000	.00000	.01870
1.034	-2.000	-.00590	-.00290	-.02380	.02710	.00000	.00000	.02030
1.034	.000	-.01540	.00350	-.02990	.03060	.00000	.00000	.02030
1.034	2.000	-.02420	.01270	-.03680	.03360	.00000	.00000	.02390
1.034	4.000	-.03180	.01760	-.04510	.04170	.00000	.00000	.02490
1.034	6.000	-.04030	.02360	-.05290	.04730	.00000	.00000	.02640
1.034	8.000	-.04990	.03020	-.06190	.03460	.00000	.00000	.02790
1.034	10.000	-.05940	.03690	-.07010	.06090	.00000	.00000	.02880
1.034	GRADIENT	-.00442	.00363	-.00342	.00233	.00000	.00000	.00090

RUN NO. 4186/ 0 RVL = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.231	-10.000	.02070	-.02750	-.01920	.03000	.00000	.00000	.02770
1.231	-8.000	.01360	-.02320	-.01540	.02590	.00000	.00000	.02930
1.231	-6.000	.00930	-.01820	-.01480	.02360	.00000	.00000	.03110
1.231	-4.000	.00050	-.01010	-.02090	.02610	.00000	.00000	.03140
1.231	-2.000	-.00990	-.00080	-.02790	.03370	.00000	.00000	.03030
1.231	.000	-.02030	.00650	-.03460	.03600	.00000	.00000	.03060
1.231	2.000	-.02980	.01620	-.04050	.04170	.00000	.00000	.03240
1.231	4.000	-.03900	.02350	-.04730	.04370	.00000	.00000	.03450
1.231	6.000	-.04860	.03060	-.05470	.04060	.00000	.00000	.03600
1.231	8.000	-.05950	.03660	-.06340	.03630	.00000	.00000	.03750
1.231	10.000	-.07250	.04620	-.07070	.06120	.00000	.00000	.04010
1.231	GRADIENT	-.00496	.00421	-.00326	.00216	.00000	.00000	.00041

MSFC 370 (1A31F) (S3/2) / (G3) / (T9) (U3) / (S3/2)

(R03R20) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = .000 COAFTG = 401.000
 DELTAZ = .140 RUDDER = .000
 X-SR9 = .000 ORBINC = .300
 SPACER = .000 SPADIA = .000
 SPACAP = .000

PARAMETRIC DATA

RUN NO. 4196/ D RN/L = 7.05 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.977	-10.000	.01340	-.01610	-.00620	.02300	.00000	.00000	.02040
1.977	-8.000	.00830	-.01360	-.00690	.02070	.00000	.00000	.02050
1.977	-6.000	.00390	-.01030	-.00740	.02020	.00000	.00000	.01910
1.977	-4.000	-.00350	-.00330	-.01150	.02190	.00000	.00000	.01960
1.977	-2.000	-.01140	.00440	-.01650	.02410	.00000	.00000	.02130
1.977	.000	-.01910	.01130	-.02140	.02630	.00000	.00000	.02270
1.977	2.000	-.02330	.01610	-.02740	.02960	.00000	.00000	.02320
1.977	4.000	-.03090	.02010	-.03330	.03330	.00000	.00000	.02410
1.977	6.000	-.03750	.02490	-.04270	.04090	.00000	.00000	.02590
1.977	8.000	-.04630	.03170	-.05030	.04630	.00000	.00000	.02710
1.977	10.000	-.05900	.04020	-.05720	.05030	.00000	.00000	.02760
1.977	GRADIENT	-.00343	.00294	-.00292	.00161	.00000	.00000	.00055

RUN NO. 4161/ D RN/L = 7.08 GRADIENT INTERVAL = -3.00/ 1.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.490	-10.000	.00260	-.00360	.01330	.00740	.00000	.00000	.00900
3.490	-8.000	-.00080	-.00420	.00920	.00750	.00000	.00000	.00870
3.490	-6.000	-.00090	-.00390	.00230	.00830	.00000	.00000	.00830
3.490	-4.000	-.00400	-.00250	-.00420	.00990	.00000	.00000	.00910
3.490	-2.000	-.00790	-.00120	-.00970	.00970	.00000	.00000	.00990
3.490	.000	-.01140	.00010	-.01720	.01080	.00000	.00000	.00970
3.490	2.000	-.01840	.00400	-.02500	.01240	.00000	.00000	.00920
3.490	4.000	-.02430	.00710	-.03190	.01390	.00000	.00000	.00960
3.490	6.000	-.03060	.00990	-.03770	.01490	.00000	.00000	.01050
3.490	8.000	-.03590	.01270	-.04360	.01600	.00000	.00000	.01000
3.490	10.000	-.04040	.01510	-.04940	.01670	.00000	.00000	.00940
3.490	GRADIENT	-.00256	.00122	-.00333	.00062	.00000	.00000	.00016

MSFC 570 (1A31F) (S3/2) / (C3) / (T9) (U3) (S3/2)

(R03R34) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 403.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4149/ 0 RV/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.992	-10.000	-.06140	.01650	.02730	-.01300	.00000	.00000	.03330
.992	-8.000	-.04820	.01220	.00770	-.00110	.00000	.00000	.03140
.992	-6.000	-.03320	.00720	-.00910	.00930	.00000	.00000	.03060
.992	-4.000	-.02280	.00130	-.01810	.01490	.00000	.00000	.02690
.992	-2.000	-.01180	-.00280	-.02430	.02130	.00000	.00000	.02630
.992	.000	-.00390	-.00490	-.02300	.02410	.00000	.00000	.02670
.992	2.000	.00330	-.00730	-.02430	.02470	.00000	.00000	.02760
.992	4.000	.01330	-.01200	-.01970	.02000	.00000	.00000	.02790
.992	6.000	.02150	-.01490	-.01480	.01500	.00000	.00000	.02860
.992	8.000	.03000	-.01640	-.00520	.00660	.00000	.00000	.02920
.992	10.000	.04020	-.01940	.01190	-.00440	.00000	.00000	.03010
.992	GRADIENT	.00437	-.00155	-.00017	.00068	.00000	.00000	.00016

RUN NO. 4150/ 0 RV/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06880	.01780	.03150	-.01480	.00000	.00000	.03160
.902	-8.000	-.05550	.01440	.03100	-.00480	.00000	.00000	.02990
.902	-6.000	-.04270	.01130	.00870	.00650	.00000	.00000	.02920
.902	-4.000	-.03230	.00870	-.00930	.01660	.00000	.00000	.02970
.902	-2.000	-.02320	.00370	-.02120	.02370	.00000	.00000	.02900
.902	.000	-.01390	.00250	-.02670	.02770	.00000	.00000	.02890
.902	2.000	-.00360	-.00170	-.02730	.02830	.00000	.00000	.02810
.902	4.000	.00830	-.00850	-.01970	.02270	.00000	.00000	.02710
.902	6.000	.02010	-.01390	-.01020	.01620	.00000	.00000	.02650
.902	8.000	.03100	-.01790	.00280	.00810	.00000	.00000	.02590
.902	10.000	.04220	-.02270	.02130	-.00220	.00000	.00000	.03190
.902	GRADIENT	.00504	-.00209	-.00134	.00094	.00000	.00000	-.00030

(R93R34) (14 SEP 73)

HSFC 570(1A31F)(S3/2)/(Q3)/(T8)(U5)(S3/2)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAF16 = 403.000
DELTAZ = .140 RUDDER = .000
X-SP8 = .000 ORBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4151/ 0 RM/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.07360	.01900	.04360	-.01340	.00000	.00000	.02700
1.048	-8.000	-.05990	.01620	.02130	-.00230	.00000	.00000	.02340
1.048	-6.000	-.04660	.01440	-.00100	.00940	.00000	.00000	.02410
1.048	-4.000	-.03320	.01210	-.01990	.02180	.00000	.00000	.02340
1.048	-2.000	-.02460	.00990	-.02990	.02940	.00000	.00000	.02260
1.048	.000	-.01490	.00320	-.03100	.03280	.00000	.00000	.02190
1.048	2.000	-.00390	-.00930	-.02990	.03160	.00000	.00000	.02290
1.048	4.000	.00960	-.00990	-.01990	.02480	.00000	.00000	.02070
1.048	6.000	.02090	-.01430	-.01220	.01900	.00000	.00000	.02040
1.048	8.000	.03390	-.02060	.00120	.01030	.00000	.00000	.02170
1.048	10.000	.04890	-.02890	.02100	-.00070	.00000	.00000	.02420
GRADIENT		.00352	-.00256	.00005	.00039	.00000	.00000	-.00026

RUN NO. 4152/ 1 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	-.08070	.01620	.06090	-.02590	.00000	.00000	.03590
1.244	-8.000	-.06190	.01190	.03210	-.00550	.00000	.00000	.03290
1.244	-6.000	-.04670	.00910	.00490	.00820	.00000	.00000	.03200
1.244	-4.000	-.03430	.00700	-.01670	.02210	.00000	.00000	.03260
1.244	-2.000	-.02330	.00310	-.03040	.03320	.00000	.00000	.03190
1.244	.000	-.01460	.00420	-.03400	.03410	.00000	.00000	.03140
1.244	2.000	-.00740	.00210	-.03190	.03730	.00000	.00000	.03340
1.244	4.000	.00680	-.00600	-.02470	.03100	.00000	.00000	.03900
1.244	6.000	.01930	-.01230	-.01590	.02490	.00000	.00000	.03820
1.244	8.000	.03320	-.01840	-.00120	.01670	.00000	.00000	.03770
1.244	10.000	.04940	-.02540	.01970	.00650	.00000	.00000	.03490
GRADIENT		.00490	-.00145	-.00087	.00109	.00000	.00000	.00071

MSFC 570 (1A31F) (S3/2) / (C3) / (T9) (US) (S3/2)

(R03R34) (14 SEP 75)

REFERENCE DATA

SRP = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 403.000
 DELTAZ = .140 RUDDER = .500
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4143/ 0 RV/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.969	-10.000	-.11430	.04390	.06370	-.03610	.00000	.00000	.02390
1.969	-8.000	-.08030	.02620	.04900	-.02660	.00000	.00000	.02040
1.969	-6.000	-.05600	.01610	.02430	-.01040	.00000	.00000	.01940
1.969	-4.000	-.04000	.01290	-.00340	.00700	.00000	.00000	.01990
1.969	-2.000	-.02730	.01130	-.01660	.02020	.00000	.00000	.02060
1.969	.000	-.01910	.01160	-.02100	.02620	.00000	.00000	.02170
1.969	2.000	-.01290	.01340	-.01990	.02610	.00000	.00000	.02290
1.969	4.000	-.00180	.01010	-.01540	.02490	.00000	.00000	.02270
1.969	6.000	.01130	.00340	-.00280	.01700	.00000	.00000	.02330
1.969	8.000	.02760	-.00030	.01630	.00310	.00000	.00000	.02490
1.969	10.000	.05210	-.01190	.03770	-.00710	.00000	.00000	.02690
GRADIENT		.00455	-.00016	-.00161	.00209	.00000	.00000	.00034

RUN NO. 4153/ 0 RV/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10170	.05080	.03110	-.01390	.00000	.00000	.01090
3.480	-8.000	-.08340	.04160	.02640	-.01290	.00000	.00000	.01090
3.480	-6.000	-.06390	.03120	.01920	-.00970	.00000	.00000	.01030
3.480	-4.000	-.04420	.02020	.00790	-.00200	.00000	.00000	.00900
3.480	-2.000	-.02800	.01240	-.00330	.00990	.00000	.00000	.00800
3.480	.000	-.01590	.00940	-.01370	.01690	.00000	.00000	.01000
3.480	2.000	-.00760	.00760	-.01730	.02210	.00000	.00000	.01010
3.480	4.000	.00050	.00660	-.00970	.01670	.00000	.00000	.01030
3.480	6.000	.01230	.00260	.00110	.00780	.00000	.00000	.00950
3.480	8.000	.03030	-.00670	.01000	.00090	.00000	.00000	.00930
3.480	10.000	.05030	-.01730	.01560	-.00210	.00000	.00000	.00940
GRADIENT		.00349	-.00160	-.00237	.00253	.00000	.00000	.00023

(R33R35) (07 DEC 73)

MSFC 570(1A31F)(S3/2)/(03)/(179)(U5)(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFC = 403.000
DELTAZ = .140 RUDDER = .000
X-SRS = .000 CPINC = .500
SPACER = .000 SPACIA = .000
SPAGAP = .000

RUN NO. 4148/ 0 RIVL = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.590	-10.000	.01760	-.02190	-.00310	.01410	.00000	.00000	.02410
.590	-8.000	.01260	-.01750	-.00230	.01080	.00000	.00000	.02390
.590	-6.000	.00920	-.01440	-.00390	.00970	.00000	.00000	.02330
.590	-4.000	.00360	-.01060	-.00770	.01150	.00000	.00000	.02390
.590	-2.000	-.00040	-.00740	-.01560	.01690	.00000	.00000	.02400
.590	.000	-.00730	-.00230	-.02390	.02300	.00000	.00000	.02970
.590	2.000	-.01560	.00390	-.03550	.03160	.00000	.00000	.02990
.590	4.000	-.02330	.00930	-.04190	.03640	.00000	.00000	.03140
.590	6.000	-.03160	.01330	-.04770	.04070	.00000	.00000	.03070
.590	8.000	-.04060	.02160	-.05360	.04540	.00000	.00000	.03120
.590	10.000	-.04950	.02770	-.06090	.05140	.00000	.00000	.03230
GRADIENT		-.00345	.00255	-.00441	.00323	.00000	.00000	.00105

RUN NO. 4147/ 0 RIVL = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.899	-10.000	.00910	-.01490	-.00560	.01630	.00000	.00000	.02470
.899	-8.000	.00540	-.01220	-.00360	.01290	.00000	.00000	.02460
.899	-6.000	.00330	-.01030	-.00400	.01120	.00000	.00000	.02350
.899	-4.000	.00010	-.00830	-.01470	.01900	.00000	.00000	.02920
.899	-2.000	-.00930	-.00140	-.02090	.02320	.00000	.00000	.03000
.899	.000	-.01710	.00540	-.02790	.02910	.00000	.00000	.03090
.899	2.000	-.02650	.01260	-.03470	.03320	.00000	.00000	.03210
.899	4.000	-.03450	.01840	-.04090	.03910	.00000	.00000	.03100
.899	6.000	-.04400	.02490	-.04710	.04320	.00000	.00000	.03370
.899	8.000	-.05290	.03110	-.05570	.04990	.00000	.00000	.03490
.899	10.000	-.06270	.03760	-.06340	.05630	.00000	.00000	.03550
GRADIENT		-.00436	.00337	-.00331	.00241	.00000	.00000	.00027



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(Q3)/(T9) (U5) (S3/2)

(R88R35) (07 DEC 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 403.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4146/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	.01460	-.01810	-.01470	.02460	.00000	.00000	.01790
1.051	-8.000	.01030	-.01900	-.01170	.02110	.00000	.00000	.01910
1.051	-6.000	.00650	-.01250	-.01020	.01810	.00000	.00000	.02020
1.051	-4.000	.00290	-.01030	-.01730	.02280	.00000	.00000	.02110
1.051	-2.000	.00000	-.00240	-.02340	.02700	.00000	.00000	.02290
1.051	.000	-.01510	.00500	-.03070	.03180	.00000	.00000	.02290
1.051	2.000	-.02340	.01160	-.03970	.03960	.00000	.00000	.02490
1.051	4.000	-.03200	.01780	-.04680	.04360	.00000	.00000	.02770
1.051	6.000	-.04150	.02420	-.05590	.05040	.00000	.00000	.02920
1.051	8.000	-.05040	.03060	-.06390	.05640	.00000	.00000	.03090
1.051	10.000	-.06120	.03810	-.07290	.06360	.00000	.00000	.03290
1.051	GRADIENT	-.00436	.00351	-.00377	.00269	.00000	.00000	.00076

RUN NO. 4145/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	.01730	-.02390	-.01890	.03170	.00000	.00000	.02960
1.248	-8.000	.01370	-.02100	-.01520	.02690	.00000	.00000	.03010
1.248	-6.000	.00860	-.01730	-.01620	.02350	.00000	.00000	.03200
1.248	-4.000	.00120	-.01080	-.01910	.02710	.00000	.00000	.03340
1.248	-2.000	.00870	-.00190	-.02770	.03390	.00000	.00000	.03290
1.248	.000	-.01930	.00680	-.03510	.03910	.00000	.00000	.03350
1.248	2.000	-.02920	.01470	-.04130	.04290	.00000	.00000	.03540
1.248	4.000	-.03960	.02310	-.04760	.04680	.00000	.00000	.03660
1.248	6.000	-.04950	.03050	-.05550	.05180	.00000	.00000	.03840
1.248	8.000	-.06050	.03860	-.06300	.05680	.00000	.00000	.03970
1.248	10.000	-.07350	.04820	-.07050	.06130	.00000	.00000	.04200
1.248	GRADIENT	-.00510	.00422	-.00353	.00243	.00000	.00000	.00047

(R03R35) (07 DEC 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFLC = 403.000
DELTA Z = .140 RUDDER = .000
X-SRB = .000 CRDINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4144/ 0 RIVL = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.992	-10.000	.01310	-.01780	-.00310	.02020	.00000	.00000	.02050
1.992	-6.000	.00940	-.01500	-.00290	.01810	.00000	.00000	.02020
1.992	-6.000	.00320	-.01200	-.00860	.01960	.00000	.00000	.02010
1.992	-4.000	-.00210	-.00450	-.00960	.02000	.00000	.00000	.01930
1.992	-2.000	-.01060	.00440	-.01460	.02240	.00000	.00000	.02030
1.992	.000	-.01750	.01000	-.02120	.02620	.00000	.00000	.02090
1.992	2.000	-.02370	.01490	-.02710	.02980	.00000	.00000	.02160
1.992	4.000	-.02930	.01870	-.03310	.03330	.00000	.00000	.02270
1.992	6.000	-.03690	.02490	-.04260	.04070	.00000	.00000	.02450
1.992	8.000	-.04470	.03070	-.05040	.04630	.00000	.00000	.02680
1.992	10.000	-.05460	.03950	-.05720	.05100	.00000	.00000	.02920
GRADIENT		-.00337	.00284	-.00316	.00190	.00000	.00000	.00033

RUN NO. 4154/ 0 RIVL = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.490	-10.000	.00240	-.00690	.01490	-.00070	.00000	.00000	.00320
3.490	-6.000	.00000	-.00430	.01100	.00110	.00000	.00000	.00930
3.490	-6.000	-.00120	-.00280	.00440	.00320	.00000	.00000	.00960
3.490	-4.000	-.00540	.00090	-.00220	.01010	.00000	.00000	.00950
3.490	-2.000	-.00900	.00420	-.00920	.01370	.00000	.00000	.00910
3.490	.000	-.01230	.00720	-.01610	.01980	.00000	.00000	.00930
3.490	2.000	-.01960	.01410	-.02430	.02580	.00000	.00000	.01100
3.490	4.000	-.02550	.02120	-.03080	.03050	.00000	.00000	.01080
3.490	6.000	-.03070	.02710	-.03750	.03550	.00000	.00000	.01050
3.490	8.000	-.03500	.03190	-.04420	.04040	.00000	.00000	.01030
3.490	10.000	-.04030	.03750	-.04950	.04400	.00000	.00000	.00990
GRADIENT		-.00247	.00252	-.00357	.00264	.00000	.00000	.00033



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) (O3) (T9) (S3/2) Y1E

(R83R40) (04 OCT 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 404.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 7.900 SPADIA = .100
 SPACAP = .050

RUN NO. 4217/ 1 RM/L = 6.86 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.07150	.00900	.05820	-.01490	.00000	.00000	.03120
1.253	-6.000	-.05320	.00370	.02890	-.00110	.00000	.00000	.02960
1.253	-6.000	-.03870	.00380	.00240	.01260	.00000	.00000	.02700
1.253	-4.000	-.02700	.00300	-.01870	.02300	.00000	.00000	.02700
1.253	-2.000	-.01870	.00390	-.03260	.03450	.00000	.00000	.02630
1.253	.000	-.01240	.00450	-.03360	.03700	.00000	.00000	.02330
1.253	2.000	-.00430	.00150	-.02890	.03370	.00000	.00000	.02770
1.253	4.000	.00800	-.00590	-.02130	.02790	.00000	.00000	.03070
1.253	6.000	.01780	-.00970	-.01210	.02170	.00000	.00000	.02990
1.253	8.000	.03040	-.01550	.00270	.01290	.00000	.00000	.03040
1.253	10.000	.04600	-.02220	.02610	.00090	.00000	.00000	.03170
	GRADIENT	.00422	-.00101	-.00007	.00025	.00000	.00000	.00044

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

XMRP = 2.3490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.
 BETA = .000
 CONF10 = 404.000
 DELTAZ = .140
 RUDDER = .000
 X-SRB = .000
 CRBINC = .500
 SPACER = 9.100
 SPACIA = .200
 SPAGAP = .050

PARAMETRIC DATA

RUN NO. 4211/ 1 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
1.253	-10.000	-.06980	.00970	.05590	-.01240	.00000	.00000	.02990
1.253	-8.000	-.05210	.00580	.02720	.00040	.00000	.00000	.02740
1.253	-6.000	-.03510	.00360	.00200	.01330	.00000	.00000	.02650
1.253	-4.000	-.02590	.00210	-.01950	.02620	.00000	.00000	.02870
1.253	-2.000	-.01960	.00240	-.03360	.03580	.00000	.00000	.02610
1.253	.000	-.00960	.00230	-.03420	.03750	.00000	.00000	.02520
1.253	2.000	-.00190	-.00040	-.02420	.03350	.00000	.00000	.02720
1.253	4.000	.01050	-.00930	-.02120	.02740	.00000	.00000	.03090
1.253	6.000	.02000	-.01170	-.01200	.02140	.00000	.00000	.02930
1.253	8.000	.03270	-.01770	.00250	.01260	.00000	.00000	.02990
1.253	10.000	.04790	-.02410	.02510	.00120	.00000	.00000	.03130
	GRADIENT	.00434	-.00114	.00010	.00033	.00000	.00000	.00047



MSFC 370 (1A31F) (S3/2)/(03)/(T9)/(S3/2)Y1E

(R63R42) (04 OCT 73)

REFERENCE DATA

SREF = .0720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 404.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = 11.120 SPADIA = .300
 SPACAP = .030

RUN NO. 4219/ 1 RM/L = 6.97 GRADIENT INTERVAL = -3.00/ 3.00

WACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.255	-10.000	-.07250	.01010	.06020	-.01330	.00000	.00000	.03190
1.255	-6.000	-.03340	.00600	.03220	-.00200	.00000	.00000	.02960
1.255	-6.000	-.03670	.00330	.00360	.01140	.00000	.00000	.02820
1.255	-4.000	-.02620	.00140	-.01670	.02410	.00000	.00000	.02740
1.255	-2.000	-.01590	.00050	-.03160	.03390	.00000	.00000	.02630
1.255	.000	-.00850	.00040	-.03400	.03670	.00000	.00000	.02520
1.255	2.000	-.00080	-.00190	-.02870	.03360	.00000	.00000	.02700
1.255	4.000	.01240	-.01100	-.02060	.02720	.00000	.00000	.03060
1.255	6.000	.02200	-.01470	-.01290	.02160	.00000	.00000	.03010
1.255	8.000	.03460	-.02040	.00110	.01290	.00000	.00000	.03070
1.255	10.000	.04990	-.02720	.02220	.00140	.00000	.00000	.03390
GRADIENT		.00461	-.00136	-.00025	.00030	.00000	.00000	.00033

MSFC 370 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)Y1E

(R93R43) (04 OCT 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 404.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CFBINC = .500
SPACER = 13.140 SPADIA = .200
SPAGAP = .100

RUN NO. 4219/ 0 RIVL = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLW	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.07070	.00830	.05760	-.01460	.00000	.00000	.03190
1.251	-8.000	-.04980	.00570	.02210	.00170	.00000	.00000	.02740
1.251	-6.000	-.03880	.00350	.00340	.01290	.00000	.00000	.02630
1.251	-4.000	-.02660	.00200	-.01710	.02400	.00000	.00000	.02590
1.251	-2.000	-.01840	.00330	-.03120	.03330	.00000	.00000	.02530
1.251	.000	-.01190	.00400	-.03370	.03640	.00000	.00000	.02430
1.251	2.000	-.00450	.00170	-.02830	.03290	.00000	.00000	.02600
1.251	4.000	.00840	-.00650	-.02040	.02650	.00000	.00000	.02910
1.251	6.000	.01790	-.01020	-.01210	.02090	.00000	.00000	.03020
1.251	8.000	.03040	-.01640	.00230	.01170	.00000	.00000	.03130
1.251	10.000	.04620	-.02390	.02200	.00140	.00000	.00000	.03410
GRADIENT		.00419	-.00093	-.00018	.00023	.00000	.00000	.00036

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) (O3) / (T9) / (S3/2) Y1E

(R83R44) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 404.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = 19.100 SPADIA = .200
 SPACAP = .030

RUN NO. 4212/ 0 RV/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.253	-10.000	-.07560	.01270	.06130	-.01700	.00000	.00000	.02990
1.253	-8.000	-.05620	.00830	.03340	-.00420	.00000	.00000	.02710
1.253	-6.000	-.04150	.00600	.00780	.00830	.00000	.00000	.02570
1.253	-4.000	-.02930	.00470	-.01420	.02120	.00000	.00000	.02570
1.253	-2.000	-.02050	.00490	-.02690	.03140	.00000	.00000	.02570
1.253	.000	-.01390	.00310	-.03180	.03500	.00000	.00000	.02490
1.253	2.000	-.00620	.00310	-.02710	.03210	.00000	.00000	.02630
1.253	4.000	.00690	-.00540	-.01910	.02590	.00000	.00000	.03120
1.253	6.000	.01700	-.01900	-.01090	.02040	.00000	.00000	.03060
1.253	8.000	.02950	-.01580	.00320	.01200	.00000	.00000	.02990
1.253	10.000	.04400	-.02180	.02320	.00110	.00000	.00000	.03180
1.253	GRADIENT	.00434	-.00110	-.00040	.00030	.00000	.00000	.00030

(093R45) (04 OCT 75)

MSFC 570 (1A31F) (S3/2)/(03)/(T9)/(S3/2)Y1E

TABULATED SOURCE DATA - MSFC 570

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF16 = 494.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = -.300
 SPACER = 20.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 4213/ 1 RM/L = 6.85 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.252	-10.000	-.06860	.00390	.05640	-.01260	.00000	.00000	.03280
1.252	-8.000	-.03010	.00260	.02540	.00240	.00000	.00000	.03120
1.252	-6.000	-.03490	.00090	-.00250	.01720	.00000	.00000	.03010
1.252	-4.000	-.02190	-.00190	-.02340	.02920	.00000	.00000	.02930
1.252	-2.000	-.01270	-.00190	-.03390	.03750	.00000	.00000	.02900
1.252	.000	-.00610	-.00140	-.03510	.03990	.00000	.00000	.02660
1.252	2.000	.00200	-.00450	-.03100	.03570	.00000	.00000	.02940
1.252	4.000	.01470	-.01230	-.02300	.03110	.00000	.00000	.03070
1.252	6.000	.02300	-.01460	-.01550	.02430	.00000	.00000	.02970
1.252	8.000	.03450	-.01870	-.00110	.01990	.00000	.00000	.02950
1.252	10.000	.05010	-.02540	.02500	.00110	.00000	.00000	.03120
1.252	GRADIENT	.00439	-.00117	.00009	.00010	.00000	.00000	.00016

MSFC 570 (TA31F) (S3/2)/(03)/(T9)/(S3/2)Y1E

(R63R46) (04 OCT 73)

REFERENCE DATA

SRP = .9780 SQ. IN. XMRP = 2.3490 IN.
 LREP = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 404.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CABIN = -.900
 SPACER = 16.160 SPADIA = .200
 SPAGAP = .050

RUN NO. 4214/ 0 RM/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.254	-10.000	-.07590	.01800	.05840	-.01300	.00000	.00000	.03370
1.254	-8.000	-.05540	.00730	.02930	.00030	.00000	.00000	.03150
1.254	-6.000	-.04030	.00460	.00340	.01340	.00000	.00000	.03010
1.254	-4.000	-.02740	.00270	-.01650	.02360	.00000	.00000	.02910
1.254	-2.000	-.01730	.00250	-.03360	.03360	.00000	.00000	.02790
1.254	.000	-.00930	.00190	-.03550	.03790	.00000	.00000	.02690
1.254	2.000	-.00060	-.00140	-.02920	.03330	.00000	.00000	.02520
1.254	4.000	.01190	-.00940	-.02230	.02820	.00000	.00000	.03110
1.254	6.000	.02070	-.01200	-.01310	.02190	.00000	.00000	.03020
1.254	8.000	.03180	-.01600	.00020	.01410	.00000	.00000	.02990
1.254	10.000	.04530	-.02100	.02360	.00160	.00000	.00000	.03140
	GRADIENT	.00475	-.00140	-.00016	.00014	.00000	.00000	.00021

MSFC 370 (TA31F) (33/2) (03) / (19) / (33/2) Y1E

(R93R47) (04 OCT 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 404.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.990
 SPACER = 17.160 SPADIA = .200
 SPAGAP = .030

RUN NO: 4213/ 0 RV/L = 6.66 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.07620	.01360	.06330	-.01980	.00000	.00000	.03160
1.248	-8.000	-.03660	.00960	.03790	-.00740	.00000	.00000	.02970
1.248	-6.000	-.04390	.00730	.01270	.00490	.00000	.00000	.02790
1.248	-4.000	-.03170	.00580	-.01010	.01790	.00000	.00000	.02790
1.248	-2.000	-.02150	.00540	-.02630	.02970	.00000	.00000	.02610
1.248	.000	-.01350	.00500	-.03040	.03260	.00000	.00000	.02690
1.248	2.000	-.00660	.00340	-.02590	.03030	.00000	.00000	.02640
1.248	4.000	.00690	-.00360	-.01760	.02410	.00000	.00000	.03120
1.248	6.000	.01660	-.00930	-.00890	.01920	.00000	.00000	.02940
1.248	8.000	.02740	-.01390	.00350	.01140	.00000	.00000	.03020
1.248	10.000	.04080	-.01920	.02290	.00200	.00000	.00000	.03100
GRADIENT		.00439	-.00124	-.00072	.00071	.00000	.00000	.00023



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)Y1E

(R53R48) (04 OCT 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 404.000
 DELTAZ = .280 RUDDER = .000
 X-SRS = .000 CRBLNC = .500
 SPACER = 15.160 SPADIA = .200
 SPAGAP = .030

RUN NO. 4216/ 0 RIN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	Cy	CYN	CBL	CAF	CAB
1.251	-10.000	-.07680	.01250	.06220	-.01710	.00000	.00000	.03120
1.251	-8.000	-.05690	.00830	.03360	-.00410	.00000	.00000	.02990
1.251	-6.000	-.04210	.00590	.00840	.00820	.00000	.00000	.02750
1.251	-4.000	-.02960	.00420	-.01330	.02050	.00000	.00000	.02680
1.251	-2.000	-.01990	.00420	-.02900	.03120	.00000	.00000	.02740
1.251	.000	-.01230	.00410	-.03290	.03490	.00000	.00000	.02590
1.251	2.000	-.00430	.00160	-.02760	.03190	.00000	.00000	.02510
1.251	4.000	.00880	-.00700	-.01940	.02560	.00000	.00000	.02940
1.251	6.000	.01780	-.01020	-.01000	.01930	.00000	.00000	.02330
1.251	8.000	.02870	-.01410	.00250	.01260	.00000	.00000	.02850
1.251	10.000	.04270	-.02010	.02340	.00170	.00000	.00000	.03070
1.251	GRADIENT	.00462	-.00125	-.00034	.00054	.00000	.00000	.00014

(R83R49) (04 OCT 73)

MSFC 570 (1A31F) (S3/2) (O3) (T9) (S3/2) Y1E

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 404.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBITING = .500
SPACER = 9.100 SPADIA = .200
SPACAP = .550

RUN NO. 4210/ 0 RIV/L = 6.65 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.256	-10.000	.01650	-.01980	-.02140	.03320	.00000	.00000	.02390
1.256	-8.000	.01250	-.01680	-.01720	.02810	.00000	.00000	.02940
1.256	-4.000	.00800	-.01290	-.01350	.02420	.00000	.00000	.02950
1.256	-4.000	.00250	-.00830	-.01940	.02390	.00000	.00000	.02830
1.256	-2.000	-.00640	-.00020	-.02740	.03220	.00000	.00000	.02650
1.256	.000	-.01340	.00720	-.03730	.03980	.00000	.00000	.02600
1.256	2.000	-.02480	.01420	-.04450	.04440	.00000	.00000	.02950
1.256	4.000	-.03340	.02040	-.05140	.04910	.00000	.00000	.03190
1.256	6.000	-.04250	.02700	-.05870	.05350	.00000	.00000	.03350
1.256	8.000	-.05320	.03500	-.06610	.05820	.00000	.00000	.03640
1.256	10.000	-.06540	.04350	-.07290	.06240	.00000	.00000	.03970
	GRADIENT	-.00451	.00359	-.00405	.00255	.00000	.00000	.00050



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2)/(Q3)/(T9)/(S3/2)Y1EG

(R83R30) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 403.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBINC = .300
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .030

RUN NO. 4220/ D RM/L = 6.56 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.07250	.00920	.06010	-.01620	.00000	.00000	.02990
1.250	-8.000	-.03360	.00360	.03230	-.00330	.00000	.00000	.02760
1.250	-6.000	-.03910	.00340	.00690	.00930	.00000	.00000	.02660
1.250	-4.000	-.02670	.00190	-.01560	.02220	.00000	.00000	.02620
1.250	-2.000	-.01710	.00180	-.03040	.03210	.00000	.00000	.02540
1.250	.000	-.00970	.00180	-.03290	.03500	.00000	.00000	.02430
1.250	2.000	-.00300	.00000	-.02800	.03250	.00000	.00000	.02310
1.250	4.000	.00890	-.00690	-.02190	.02740	.00000	.00000	.02270
1.250	6.000	.01870	-.01110	-.01240	.02080	.00000	.00000	.02130
1.250	8.000	.03130	-.01690	.00200	.01160	.00000	.00000	.02090
1.250	10.000	.04720	-.02390	.02440	.00020	.00000	.00000	.03430
GRADIENT		.00426	-.00097	-.00047	.00054	.00000	.00000	.00014

MSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2)Y3E

(R3R51) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 SREF = 5.3130 IN.
 SCALE = .0040

BETA = .000
 DELTAZ = .140
 X-SRB = .000
 SPACER = .100
 SPADIA = .200
 SPACAP = .050

PARAMETRIC DATA

RUN NO. 4209/ 0 RIVL = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.252	-10.000	-.07860	.01420	.03590	-.01550	.00000	.00000	.03220
1.252	-8.000	-.03990	.01100	.02490	-.00020	.00000	.00000	.03010
1.252	-6.000	-.04460	.00840	-.00130	.01390	.00000	.00000	.02910
1.252	-4.000	-.03180	.00670	-.02130	.02650	.00000	.00000	.02930
1.252	-2.000	-.02230	.00650	-.03490	.03590	.00000	.00000	.02730
1.252	.000	-.01460	.00630	-.03700	.03990	.00000	.00000	.02590
1.252	2.000	-.00640	.00360	-.03240	.03670	.00000	.00000	.02720
1.252	4.000	.00680	-.00430	-.02540	.03140	.00000	.00000	.03240
1.252	6.000	.01790	-.00790	-.01620	.02540	.00000	.00000	.03110
1.252	8.000	.03000	-.01360	.00040	.01550	.00000	.00000	.03170
1.252	10.000	.04800	-.02210	.02250	.00420	.00000	.00000	.03260
	GRADIENT	.00465	-.00124	-.00029	.00049	.00000	.00000	.00041



MSFC 570(1A31F)(33/2)/(031)/(19)/(53/2)Y10

(R83R52) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 499.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPAGAP = .050

RUN NO. 4207/ 2 RVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.07810	.01210	.05480	-.01210	.00000	.00000	.03110
1.251	-8.000	-.05740	.03840	.02660	.00590	.00000	.00000	.02890
1.251	-6.000	-.04280	.00610	.00070	.01440	.00000	.00000	.02720
1.251	-4.000	-.02980	.00440	-.02120	.02740	.00000	.00000	.02670
1.251	-2.000	-.01960	.00400	-.03590	.03740	.00000	.00000	.02690
1.251	.000	-.01200	.00360	-.03730	.03990	.00000	.00000	.02590
1.251	2.000	-.00420	.00140	-.03260	.03690	.00000	.00000	.02760
1.251	4.000	.00960	-.00720	-.02500	.03130	.00000	.00000	.03160
1.251	6.000	.01950	-.01080	-.01590	.02520	.00000	.00000	.03040
1.251	8.000	.03270	-.01720	-.00150	.01590	.00000	.00000	.02940
1.251	10.000	.04920	-.02420	.02250	.00350	.00000	.00000	.03130
	GRADIENT	.00471	-.00129	-.00021	.00036	.00000	.00000	.00052

(R5R33) (04 OCT 73)

MSFC 570(1A31F)(S3/2)/(03)/(T8)/(S3/2)Y20

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 410.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CRBINC = .500
SPACER = 21.000 SPADIA = .200
SPAGAP = .050

RUN NO. 4206/0 RVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.07330	.01110	.03360	-.01140	.00000	.00000	.03000
1.246	-6.000	-.03700	.00810	.02800	.00150	.00000	.00000	.02430
1.246	-6.000	-.04240	.00590	.00010	.01480	.00000	.00000	.02690
1.246	-4.000	-.03000	.00470	-.02170	.02760	.00000	.00000	.02630
1.246	-2.000	-.02050	.00490	-.03360	.03690	.00000	.00000	.02620
1.246	.000	-.01240	.00430	-.03650	.03980	.00000	.00000	.02390
1.246	2.000	-.00460	.00190	-.03180	.03590	.00000	.00000	.02840
1.246	4.000	.00920	-.00590	-.02590	.03070	.00000	.00000	.03190
1.246	6.000	.01890	-.01040	-.01500	.02470	.00000	.00000	.03290
1.246	8.000	.03290	-.01750	-.00110	.01460	.00000	.00000	.03270
1.246	10.000	.04810	-.02400	.02140	.00290	.00000	.00000	.03240
1.246	GRADIENT	.00461	-.00117	-.00014	.00026	.00000	.00000	.00066



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (S3/2) (03) (T9) (S3/2) Y30

(R03R34) (04 OCT 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 412.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRIBINC = .500
 SPACER = .220 SPADIA = .200
 SPACAP = .030

RUN NO. 4208/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.07690	.01420	.05690	-.01570	.00000	.00000	.03160
1.251	-8.000	-.06030	.01100	.02600	-.00060	.00000	.00000	.02890
1.251	-6.000	-.04470	.00840	-.00120	.01410	.00000	.00000	.02760
1.251	-4.000	-.03150	.00640	-.02180	.02710	.00000	.00000	.02770
1.251	-2.000	-.02160	.00570	-.03470	.03690	.00000	.00000	.02740
1.251	.000	-.01410	.00530	-.03660	.03970	.00000	.00000	.02630
1.251	2.000	-.00370	.00260	-.03190	.03630	.00000	.00000	.02730
1.251	4.000	.00770	-.00530	-.02480	.03090	.00000	.00000	.03220
1.251	6.000	.01800	-.00900	-.01640	.02560	.00000	.00000	.03160
1.251	8.000	.03120	-.01500	.00010	.01560	.00000	.00000	.03130
1.251	10.000	.04820	-.02240	.02370	.00400	.00000	.00000	.03230
	GRADIENT	.00471	-.00132	-.00016	.00035	.00000	.00000	.00044

MSFC 570 (IASIF) (S3/2)/(O3)/(T9) (U3)/(S3/2)Y1E

(R03R55) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONF1G = 406.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CR3INC = .500
SPACER = 9.100 SPADIA = .200
SPAGAP = .090

RUN NO. 4203/ 0 RM/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.239	-10.000	-.08050	.01320	.06340	-.02320	.00000	.00000	.02790
1.239	-8.000	-.06150	.00960	.03610	-.00820	.00000	.00000	.02600
1.239	-6.000	-.04710	.00790	.01000	.00350	.00000	.00000	.02510
1.239	-4.000	-.03440	.00630	-.01260	.01930	.00000	.00000	.02720
1.239	-2.000	-.02360	.00500	-.02960	.03150	.00000	.00000	.02700
1.239	.000	-.01350	.00420	-.03440	.03710	.00000	.00000	.02650
1.239	2.000	-.00760	.00220	-.03240	.03730	.00000	.00000	.02690
1.239	4.000	.00460	-.00480	-.02390	.03240	.00000	.00000	.03090
1.239	6.000	.01610	-.01220	-.01670	.02600	.00000	.00000	.03190
1.239	8.000	.03140	-.01820	-.00310	.01910	.00000	.00000	.03000
1.239	10.000	.04900	-.02640	.01540	.00740	.00000	.00000	.03140
	GRADIENT	.00471	-.00125	-.00147	.00160	.00000	.00000	.00035



MSFC 570 (1A31F) (S3/2)/(Q3)/(T9) (U5)/(S3/2)Y2E

(R08R156) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 407.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = 9.000 SPADIA = .200
 SPAGAP = .050

RUN NO. 4204/ 0 RIN/L = 6.61 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CN	CLW	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.06100	.01410	.06340	-.02060	.00000	.00000	.03060
1.245	-6.000	-.06230	.01070	.03560	-.00630	.00000	.00000	.02950
1.245	-6.000	-.04800	.00990	.00990	.00350	.00000	.00000	.02960
1.245	-4.000	-.03480	.00690	-.01300	.01950	.00000	.00000	.02930
1.245	-2.000	-.02350	.00510	-.03020	.03200	.00000	.00000	.02900
1.245	.000	-.01550	.00440	-.03420	.03710	.00000	.00000	.02820
1.245	2.000	-.00630	.00310	-.03190	.03690	.00000	.00000	.02820
1.245	4.000	.00450	-.00430	-.02500	.03150	.00000	.00000	.03120
1.245	6.000	.01790	-.01160	-.01490	.02450	.00000	.00000	.03230
1.245	8.000	.03150	-.01910	-.00160	.01660	.00000	.00000	.03150
1.245	10.000	.04830	-.02590	.01770	.00690	.00000	.00000	.03230
	GRADIENT	.00469	-.00122	-.00129	.00144	.00000	.00000	.00011

MSFC 570 (1A31F) (S3/2)/(Q3)/(T9) (U5)/(S3/2)Y20

(R63R57) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 CONFIG = 411.000
DELTAZ = .140 RUDDER = .000
X-SRS = .000 CRBINC = .000
SPACER = 21.000 SPADIA = .200
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4203/ 1 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.08070	.01360	.06330	-.02070	.00000	.00000	.03190
1.245	-8.000	-.06180	.01030	.03370	-.00820	.00000	.00000	.03040
1.245	-6.000	-.04750	.00850	.00970	.00550	.00000	.00000	.03000
1.245	-4.000	-.03460	.00690	-.01300	.01950	.00000	.00000	.03040
1.245	-2.000	-.02350	.00500	-.03010	.03210	.00000	.00000	.03060
1.245	.000	-.01540	.00440	-.03420	.03700	.00000	.00000	.02960
1.245	2.000	-.00810	.00300	-.03150	.03640	.00000	.00000	.03010
1.245	4.000	.00300	-.00490	-.02510	.03160	.00000	.00000	.03420
1.245	6.000	.01790	-.01190	-.01560	.02460	.00000	.00000	.03490
1.245	8.000	.03280	-.01920	-.00270	.01690	.00000	.00000	.03340
1.245	10.000	.05000	-.02720	.01750	.00590	.00000	.00000	.03420
GRADIENT		.00475	-.00126	-.00128	.00142	.00000	.00000	.00000

MSFC 570 (1A31F) (S3/2)/(Q3)/(T9) (U5)/(S3/2)

(R63R58) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 CONFIG = 402.000
DELTAZ = .140 RUDDER = .000
X-SRS = .000 CRBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4237/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.897	-.090	-.00540	-.00140	-.02690	.02600	.00000	.00000	.01640
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4236/ 0 RM/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-.090	-.01390	.00640	-.03900	.04090	.00000	.00000	.02800
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000



NSFC 570 (1A31F) (S3/2)/(C3)/(T9) (S3/2)

(R83R59) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

BETA = .000 CONFIC = 414.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4294/ 0 RV/L = 5.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.908	-.150	-.00380	-.00390	-.02660	.02710	.00000	.00000	-.02600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4289/ 0 RV/L = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-.170	-.01490	.00730	-.03720	.03920	.00000	.00000	-.06550
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

BETA = .000 CONFIC = 414.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4347/ 0 RV/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.597	-.050	.00490	-.01140	-.03170	.02990	.00000	.00000	.03760
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4346/ 0 RV/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.794	-.100	-.00090	-.00690	-.03180	.03100	.00000	.00000	.03690
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4345/ 0 RV/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-.120	-.00330	-.00350	-.03050	.03110	.00000	.00000	.03740
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

NSFC 570 (1A31F) (S3/2)/(C3)/(T9) (S3/2)

(R83R60) (14 SEP 73)

(R03R60) (14 SEP 73)

MSFC 570 (1A31F) (S3/2)/(C3)/(19) (S3/2)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN. XMRP = 2.5490 IN.
9.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIC = 414.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4343/ 0 RIVL = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-.120	-.00770	.00090	-.04060	.04120	.00000	.00000	.04040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4344/ 0 RIVL = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-.140	-.01340	.00630	-.03970	.04220	.00000	.00000	.04920
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4348/ 0 RIVL = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.458	-.110	-.01460	.00990	-.03690	.04000	.00000	.00000	.04040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4351/ 0 RIVL = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.954	-.120	-.01340	.00710	-.02480	.02790	.00000	.00000	.02630
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4352/ 0 RIVL = 4.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.080	-.01160	.00370	-.02260	.02520	.00000	.00000	.01370
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4353/ 0 RIVL = 5.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.01190	.01060	-.01370	.01780	.00000	.00000	-.00160
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (IAS1F) (S3/21)/(O3)/(T8)/(S3/2) 6

(R83R61) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 426.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CABLING = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4261/ 0 RVL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.598	-10.000	-.05540	.01560	.02630	-.01070	.00000	.00000	.03510
.598	-6.000	-.04200	.01070	.00500	.00200	.00000	.00000	.03370
.598	-6.000	-.02880	.00490	-.01170	.01310	.00000	.00000	.03130
.598	-4.000	-.01540	-.00140	-.02590	.02290	.00000	.00000	.03070
.598	-2.000	-.00400	-.00370	-.03370	.03030	.00000	.00000	.02990
.598	.000	.00330	-.00840	-.03100	.02970	.00000	.00000	.02970
.598	2.000	.01060	-.01140	-.02470	.02530	.00000	.00000	.02990
.598	4.000	.01880	-.01590	-.01980	.02060	.00000	.00000	.03130
.598	6.000	.02750	-.01910	-.01400	.01470	.00000	.00000	.03190
.598	8.000	.03540	-.02080	-.00300	.00490	.00000	.00000	.03460
.598	10.000	.04370	-.02270	.01390	-.00770	.00000	.00000	.03400
.598	GRADIENT	.00415	-.00173	.00103	-.00047	.00000	.00000	.00006

RUN NO. 4260/ 0 RVL = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.802	-10.000	-.05630	.01560	.04450	-.01280	.00000	.00000	.03390
.802	-6.000	-.04430	.01230	.01860	.00230	.00000	.00000	.03190
.802	-6.000	-.03170	.00790	-.00250	.01210	.00000	.00000	.03110
.802	-4.000	-.01950	.00170	-.01890	.02180	.00000	.00000	.02940
.802	-2.000	-.00990	-.00230	-.02910	.02820	.00000	.00000	.02860
.802	.000	.00070	-.00530	-.02940	.02900	.00000	.00000	.02910
.802	2.000	.00930	-.01090	-.02520	.02570	.00000	.00000	.02930
.802	4.000	.01830	-.01580	-.01890	.02060	.00000	.00000	.03070
.802	6.000	.02510	-.01730	-.01310	.01540	.00000	.00000	.03100
.802	8.000	.03360	-.01990	-.00100	.00620	.00000	.00000	.03290
.802	10.000	.04280	-.02230	.01760	-.00560	.00000	.00000	.03390
.802	GRADIENT	.00474	-.00218	.00019	-.00023	.00000	.00000	.00016

(R83R61) (14 SEP 73)

MSFC 370 (1A31F) (S3/2)/(03)/(T9)/(S3/2) 6

REFERENCE DATA

SREF = .9720 SQ. IN
LREF = 3.3130 IN.
BREF = 3.3130 IN.
SCALE = .0040

YMRP = 2.5480 IN.
ZMRP = .0000 IN.
X-SFB = .0000 IN.
SPACER = .0000 IN.
SPAGAP = .0000 IN.

PARAMETRIC DATA

ETA = .000
COEFFIC = 426.000
DELTAZ = .140
PUDDER = .000
X-SFB = .000
GR3INC = .000
SPADIA = .000
SPAGAP = .000

RUN NO. 4279/ 0 RVL = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
.901	-10.000	-.06030	.01700	.04870	-.01220	.00000	.00000	.03560
.901	-8.000	-.04840	.01450	.02330	-.00100	.00000	.00000	.03350
.901	-6.000	-.03670	.01120	.00260	.01030	.00000	.00000	.03210
.901	-4.000	-.02390	.00320	-.01340	.01910	.00000	.00000	.03110
.901	-2.000	-.01270	.00000	-.02450	.02620	.00000	.00000	.02970
.901	.000	-.00260	-.00450	-.02990	.02940	.00000	.00000	.02900
.901	2.000	.00670	-.00930	-.02560	.02690	.00000	.00000	.03020
.901	4.000	.01690	-.01490	-.02090	.02300	.00000	.00000	.03090
.901	6.000	.02420	-.01720	-.01260	.01630	.00000	.00000	.03190
.901	8.000	.03560	-.02230	.00110	.00710	.00000	.00000	.03410
.901	10.000	.04520	-.02590	.02190	-.00460	.00000	.00000	.03620
GRADIENT		.00503	-.00245	-.00090	.00042	.00000	.00000	.00001

RUN NO. 4277/ 0 RVL = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
1.051	-10.000	-.06780	.01900	.04160	-.00930	.00000	.00000	.02820
1.051	-8.000	-.05430	.01700	.01610	.00330	.00000	.00000	.02470
1.051	-6.000	-.04170	.01450	-.00790	.01670	.00000	.00000	.02370
1.051	-4.000	-.02940	.01060	-.02570	.02740	.00000	.00000	.02340
1.051	-2.000	-.01800	.00630	-.03490	.03420	.00000	.00000	.02420
1.051	.000	.00810	.00220	-.03450	.03350	.00000	.00000	.02310
1.051	2.000	.00230	-.00400	-.02740	.02970	.00000	.00000	.02180
1.051	4.000	.01370	-.01070	-.02090	.02430	.00000	.00000	.02130
1.051	6.000	.02450	-.01530	-.01300	.01940	.00000	.00000	.02340
1.051	8.000	.03740	-.02290	.00090	.00960	.00000	.00000	.02540
1.051	10.000	.05100	-.02900	.02030	-.00120	.00000	.00000	.02660
GRADIENT		.00532	-.00264	.00095	-.00053	.00000	.00000	-.00033



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F) (S3/2)/(Q3)/(19)/(S3/2) G

(R03R61) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 426.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4276/ 0 R/V/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.232	-10.000	-.07310	.01610	.05310	-.01400	.00000	.00000	.04260
1.232	-8.000	-.05330	.01220	.02380	.00020	.00000	.00000	.04090
1.232	-6.000	-.04040	.00860	-.00270	.01530	.00000	.00000	.04140
1.232	-4.000	-.02910	.00730	-.02560	.03070	.00000	.00000	.04170
1.232	-2.000	-.02090	.00780	-.03810	.04130	.00000	.00000	.04090
1.232	.000	-.01290	.00620	-.03720	.04000	.00000	.00000	.03990
1.232	2.000	-.00280	.00100	-.03090	.03470	.00000	.00000	.04030
1.232	4.000	.00750	-.00400	-.02480	.02990	.00000	.00000	.04410
1.232	6.000	.01730	-.00780	-.01690	.02430	.00000	.00000	.04480
1.232	8.000	.03270	-.01590	-.00130	.01530	.00000	.00000	.04320
1.232	10.000	.05160	-.02570	.02030	.00370	.00000	.00000	.04470
	GRADIENT	.00456	-.00147	.00044	-.00041	.00000	.00000	.00023

RUN NO. 4348/ 0 R/V/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.436	-.110	-.01460	.00880	-.03690	.04000	.00000	.00000	.04040
	GRADIENT	.13273	-.08000	.33543	-.36364	.00000	.00000	-.36727

MSFC 370 (1A31F) (S3/2)/(031)/(19)/(S3/2) G

(083062) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 426.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO: 4275/ 0 RNVL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	.01940	-.01780	-.01610	.02330	-.00330	.00000	.02040
.599	-8.000	.01430	-.01450	-.01130	.01930	-.00260	.00000	.02110
.599	-6.000	.01280	-.01390	-.01080	.01640	-.00230	.00000	.02150
.599	-4.000	.01080	-.01310	-.01390	.01770	-.00190	.00000	.02380
.599	-2.000	.00750	-.01070	-.02240	.02360	-.00130	.00000	.02410
.599	.000	.00360	-.00780	-.03030	.02950	-.00060	.00000	.02750
.599	2.000	-.00340	-.00300	-.03680	.03390	.00060	.00000	.02760
.599	4.000	-.00910	.00050	-.04370	.03920	.00160	.00000	.02980
.599	6.000	-.01590	.00350	-.05030	.04410	.00290	.00000	.03040
.599	8.000	-.02390	.01100	-.05660	.04910	.00430	.00000	.03050
.599	10.000	-.03220	.01720	-.06310	.05410	.00580	.00000	.03120
GRADIENT		-.00253	.00174	-.00369	.00267	.00044	.00000	.00067

RUN NO: 4274/ 0 RNVL = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.803	-10.000	.01820	-.01910	-.02120	.02730	-.00330	.00000	.01730
.803	-8.000	.01440	-.01470	-.01330	.01970	-.00260	.00000	.01910
.803	-6.000	.01230	-.01360	-.01120	.01640	-.00220	.00000	.01920
.803	-4.000	.01050	-.01330	-.01390	.01750	-.00190	.00000	.01900
.803	-2.000	.00570	-.00940	-.02180	.02290	-.00100	.00000	.02000
.803	.000	.00120	-.00420	-.02820	.02780	.00020	.00000	.02170
.803	2.000	-.00790	.00070	-.03630	.03390	.00140	.00000	.02340
.803	4.000	-.01380	.00470	-.04340	.03960	.00230	.00000	.02490
.803	6.000	-.02130	.01000	-.05060	.04320	.00330	.00000	.02570
.803	8.000	-.02950	.01590	-.05710	.05040	.00540	.00000	.02630
.803	10.000	-.03760	.02150	-.06350	.05510	.00690	.00000	.02890
GRADIENT		-.00311	.00230	-.00387	.00276	.00056	.00000	.00076

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TABULATED SOURCE DATA - NSFC 570

PAGE 245

MSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2) 6

(R83R82) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 426.000
 DELTAZ = .140 RUBBER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4273/ 0 RV/L = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.01690	-.01660	-.02370	.02940	-.00300	.00000	.01020
.900	-8.000	.01230	-.01270	-.01500	.02140	-.00220	.00000	.01110
.900	-6.000	.01020	-.01200	-.01090	.01640	-.00190	.00000	.01180
.900	-4.000	.00790	-.01140	-.01120	.01350	-.00140	.00000	.01350
.900	-2.000	.00280	-.00790	-.01620	.02040	-.00030	.00000	.01580
.900	.000	-.00300	-.00270	-.02870	.02910	.00030	.00000	.01910
.900	2.000	-.00970	.00190	-.03580	.03350	.00170	.00000	.01920
.900	4.000	-.01570	.00630	-.04340	.03530	.00280	.00000	.01950
.900	6.000	-.02390	.01210	-.05020	.04440	.00430	.00000	.02090
.900	8.000	-.03140	.01740	-.05690	.04950	.00570	.00000	.02230
.900	10.000	-.03990	.02310	-.06360	.05490	.00730	.00000	.02490
.900	GRADIENT	-.00298	.00226	-.00410	.00304	.00033	.00000	.00077

RUN NO. 4276/ 0 RV/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	.01560	-.01490	-.02440	.03260	-.00280	.00000	.01610
1.050	-8.000	.01130	-.01220	-.01980	.02810	-.00200	.00000	.01930
1.050	-6.000	.00900	-.01120	-.01710	.02430	-.00160	.00000	.02010
1.050	-4.000	.00530	-.00880	-.01980	.02320	-.00090	.00000	.02200
1.050	-2.000	.00150	-.00270	-.02670	.03000	.00020	.00000	.02090
1.050	.000	-.00940	.00300	-.03620	.03700	.00070	.00000	.02370
1.050	2.000	-.01620	.00790	-.04620	.04480	.00290	.00000	.02650
1.050	4.000	-.02430	.01360	-.05540	.05210	.00440	.00000	.02990
1.050	6.000	-.03420	.02090	-.06290	.05760	.00620	.00000	.03120
1.050	8.000	-.04300	.02700	-.06930	.06200	.00780	.00000	.03040
1.050	10.000	-.05300	.03370	-.07730	.06770	.00970	.00000	.03270
1.050	GRADIENT	-.00369	.00277	-.00454	.00343	.00066	.00000	.00107

(R93R62) (14 SEP 73)

MSFC 370 (IAG31F) (S3/2)/(O3)/(T9)/(S3/2) 6

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SO. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 426.000
DELTAZ = .140 RUDDER = .000
X-SR9 = .000 GRDINC = .500
SPACER = .000 SPAD1A = .000
SPAGAP = .000

RUN NO. 4272/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	.01450	-.01450	-.02870	.03780	-.00260	.00000	.02050
1.253	-8.000	.00980	-.01080	-.02220	.03170	-.00180	.00000	.02290
1.253	-6.000	.00580	-.00780	-.02000	.02830	-.00100	.00000	.02460
1.253	-4.000	.00130	-.00390	-.02260	.02990	-.00020	.00000	.02640
1.253	-2.000	-.00580	.00180	-.03060	.03490	.00100	.00000	.02590
1.253	.000	-.01260	.00710	-.03970	.04220	.00230	.00000	.02730
1.253	2.000	-.01870	.01150	-.04770	.04810	.00340	.00000	.03020
1.253	4.000	-.02330	.01610	-.05450	.05290	.00460	.00000	.03190
1.253	6.000	-.03320	.02180	-.06140	.05740	.00590	.00000	.03240
1.253	8.000	-.04250	.02860	-.06980	.06220	.00770	.00000	.03270
1.253	10.000	-.05240	.03590	-.07750	.06900	.00950	.00000	.03250
GRADIENT		-.00330	.00248	-.00404	.00306	.00060	.00000	.00077

RUN NO. 4283/ 0 RN/L = 4.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.00680	-.00390	-.00040	.00800	-.00120	.00000	-.36790
3.480	-8.000	.00230	-.00130	-.00130	.00150	-.00040	.00000	-.36500
3.480	-6.000	.00040	-.00090	-.00050	.00130	.00000	.00000	-.35500
3.480	-4.000	.00110	-.00260	.00190	.00740	-.00020	.00000	-.35790
3.480	-2.000	-.00780	.00270	-.01420	.01840	.00140	.00000	.01510
3.480	.000	-.01470	.00930	-.02140	.02330	.00260	.00000	.01100
3.480	2.000	-.02340	.01770	-.02810	.02790	.00420	.00000	.01140
3.480	4.000	-.03050	.02480	-.03460	.03270	.00550	.00000	.01150
3.480	6.000	-.03750	.03150	-.04060	.03660	.00680	.00000	.01130
3.480	8.000	-.04320	.03710	-.04680	.04060	.00790	.00000	.01120
3.480	10.000	-.04890	.04290	-.05190	.04390	.00890	.00000	.01070
GRADIENT		-.00394	.00349	-.00434	.00301	.00071	.00000	.03775

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TABULATED SOURCE DATA - WSFC 570

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MSFC 570 (1A31F) (S3/2)/(C3)/(T10)/(S3/2)

(R03R63) (04 OCT 73)

REFERENCE DATA

BREF = .9780 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 413.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4305/ 0 RNL = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.03190	.00970	.03510	-.02110	.00000	.00000	.03160
.902	-8.000	-.03940	.00630	.03330	-.01170	.00000	.00000	.02990
.902	-6.000	-.02960	.00360	.01350	-.00230	.00000	.00000	.02900
.902	-5.000	-.02490	.00230	.00790	.00210	.00000	.00000	.02860
.902	-4.000	-.01890	-.00020	.00050	.00600	.00000	.00000	.02810
.902	-2.000	-.00730	-.00320	-.01070	.01160	.00000	.00000	.02700
.902	.000	.00050	-.00760	-.01360	.01310	.00000	.00000	.02690
.902	2.000	.01060	-.01300	-.01060	.00690	.00000	.00000	.02690
.902	4.000	.02060	-.01660	-.00580	.00300	.00000	.00000	.03030
.902	5.000	.02480	-.02050	-.00210	.00410	.00000	.00000	.03090
.902	6.000	.02870	-.02200	.00280	.00340	.00000	.00000	.03170
.902	6.000	.03560	-.02360	.01730	-.00940	.00000	.00000	.03440
.902	10.000	.04510	-.02710	.03650	-.02090	.00000	.00000	.03700
.902	GRADIENT	.00491	-.00226	-.00083	.00013	.00000	.00000	.00026

RUN NO. 4306/ 0 RNL = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.06080	.01320	.04430	-.01790	.00000	.00000	.02460
1.050	-8.000	-.04770	.01070	.02310	-.00790	.00000	.00000	.02340
1.050	-6.000	-.03530	.00790	.00390	.00290	.00000	.00000	.02160
1.050	-5.000	-.02910	.00620	-.00460	.00690	.00000	.00000	.02040
1.050	-4.000	-.02330	.00450	-.01100	.01090	.00000	.00000	.01990
1.050	-2.000	-.00240	-.00360	-.01730	.01560	.00000	.00000	.02030
1.050	.000	.00930	-.01130	-.00950	.01110	.00000	.00000	.02390
1.050	4.000	.02080	-.01870	-.00370	.00660	.00000	.00000	.02480
1.050	5.000	.02560	-.02110	-.00020	.00390	.00000	.00000	.02600
1.050	6.000	.03070	-.02360	.00440	.00040	.00000	.00000	.02700
1.050	6.000	.04130	-.02870	.01750	-.00810	.00000	.00000	.02770
1.050	10.000	.05280	-.03360	.03700	-.01910	.00000	.00000	.02930
1.050	GRADIENT	.00349	-.00282	.00074	-.00046	.00000	.00000	.00060

MSFC 570 (1A31P) (S3/2)/(03)/(T10)/(S9/2)

(R03R03) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

BETA = .000
 DELTAZ = .140
 X-SRB = .000
 SPACER = .000
 SPACAP = .000

PARAMETRIC DATA

CONFIC = 415.000
 RUDDER = .000
 CRBINC = .500
 SPADIA = .000

RUN NO. 4304/ 0 RML = 6.35 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.06450	.00740	.01700	-.02140	.00000	.00000	.04220
1.249	-9.000	-.04800	.00420	.03010	-.00910	.00000	.00000	.04110
1.249	-8.000	-.03440	.00190	.00620	.00440	.00000	.00000	.03940
1.249	-5.000	-.02870	.00110	-.00370	.01010	.00000	.00000	.03830
1.249	-4.000	-.02390	.00080	-.01230	.01560	.00000	.00000	.03790
1.249	-2.000	-.01370	.00150	-.02240	.02290	.00000	.00000	.03660
1.249	.000	-.00970	.00220	-.02160	.02330	.00000	.00000	.03540
1.249	2.000	-.00170	-.00090	-.01570	.01990	.00000	.00000	.03860
1.249	4.000	.00950	-.00770	-.00990	.01350	.00000	.00000	.04140
1.249	5.000	.01430	-.00970	-.00560	.01120	.00000	.00000	.04390
1.249	6.000	.01990	-.01230	-.00060	.00790	.00000	.00000	.04370
1.249	8.000	.03390	-.01990	.01470	-.00190	.00000	.00000	.04210
1.249	10.000	.04800	-.02620	.03610	-.01230	.00000	.00000	.04350
1.249	GRADIENT	.00417	-.00103	.00020	-.00012	.00000	.00000	.00046



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2)/(O3)/(T10)/(S3/2)

(R03R04) (04 OCT 75)

REFERENCE DATA

XREP = .9750 IN. XMRP = 2.5490 IN.
 YREP = 9.3130 IN. YMRP = .0000 IN.
 ZREP = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 415.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = .900
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4309/ 0 RWL = 6.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.01150	-.01390	-.00150	.00980	-.00210	.00000	.02790
.900	-8.000	.01110	-.01400	.00340	.00350	-.00200	.00000	.02810
.900	-6.000	.00910	-.01260	.00220	.00270	-.00160	.00000	.02920
.900	-4.000	.00500	-.01010	-.00270	.00370	-.00090	.00000	.02900
.900	-2.000	-.00060	-.00390	-.00930	.01030	.00010	.00000	.02790
.900	.000	-.00700	-.00160	-.01480	.01400	.00120	.00000	.02810
.900	2.000	-.01320	.00250	-.02200	.01960	.00240	.00000	.03030
.900	4.000	-.02010	.00690	-.02860	.02320	.00360	.00000	.03260
.900	6.000	-.02880	.01190	-.03350	.03090	.00320	.00000	.03490
.900	8.000	-.03690	.01780	-.04250	.03630	.00670	.00000	.03720
.900	10.000	-.04590	.02360	-.04920	.04100	.00830	.00000	.03990
GRADIENT		-.00314	.00211	-.00322	.00241	.00036	.00000	.00038

RUN NO. 4307/ 0 RWL = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.033	-10.000	.01860	-.01890	-.00970	.01740	-.00340	.00000	.01830
1.033	-8.000	.01470	-.01640	-.00160	.00900	-.00260	.00000	.02030
1.033	-6.000	.01160	-.01490	-.00130	.00690	-.00210	.00000	.02260
1.033	-4.000	.00810	-.01290	-.00490	.00820	-.00140	.00000	.02070
1.033	-2.000	.00110	-.00750	-.01160	.01250	-.00020	.00000	.02290
1.033	.000	-.00740	-.00050	-.01900	.01760	.00130	.00000	.02350
1.033	2.000	-.01590	.00350	-.02790	.02470	.00290	.00000	.02900
1.033	4.000	-.02370	.01060	-.03350	.03030	.00430	.00000	.03070
1.033	6.000	-.03200	.01610	-.04240	.03520	.00390	.00000	.03140
1.033	8.000	-.04100	.02190	-.04980	.04040	.00730	.00000	.03490
1.033	10.000	-.05110	.02870	-.05570	.04460	.00930	.00000	.03360
GRADIENT		-.00403	.00300	-.00389	.00282	.00072	.00000	.00131

(R03R64) (04 OCT 73)

MSFC 370 (IASIF) (S3/2)/(C3)/(T10)/(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF16 = 415.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBLNC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4306/0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	.01660	-.01910	-.00920	.01860	-.00300	.00000	.03610
1.250	-8.000	.01110	-.01500	-.00670	.01580	-.00200	.00000	.03990
1.250	-6.000	.00650	-.01170	-.00410	.01350	-.00120	.00000	.04090
1.250	-4.000	-.00030	-.00630	-.01260	.01780	.00000	.00000	.03850
1.250	-2.000	-.00990	.00060	-.01990	.02300	.00160	.00000	.03620
1.250	.000	-.01610	.00590	-.02770	.02870	.00290	.00000	.03870
1.250	2.000	-.02330	.01090	-.03410	.03270	.00420	.00000	.04290
1.250	4.000	-.03180	.01650	-.03990	.03610	.00590	.00000	.04590
1.250	6.000	-.04120	.02300	-.04570	.03930	.00730	.00000	.04750
1.250	8.000	-.05270	.03120	-.05220	.04290	.00960	.00000	.04950
1.250	10.000	-.06540	.04050	-.05990	.04750	.01190	.00000	.05020
	GRADIENT	-.00397	.00291	-.00345	.00231	.00071	.00000	.00106

WSFC 970 (1A31F) (S3/2)/(C3) (T9)/(S3/2)

(M03R65) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4233/ 0 RV/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.06430	.02100	.01990	-.00170	.000000	.000000	.03670
.598	-8.000	-.05190	.01750	-.00240	.01110	.000000	.000000	.03360
.598	-6.000	-.03870	.01210	-.02160	.02340	.000000	.000000	.03230
.598	-5.000	-.03210	.00950	-.02940	.02860	.000000	.000000	.03120
.598	-4.000	-.02600	.00710	-.03550	.03300	.000000	.000000	.03060
.598	-2.000	-.01570	.00320	-.04230	.03910	.000000	.000000	.03000
.598	.000	-.00320	-.00100	-.04190	.04020	.000000	.000000	.03000
.598	2.000	.00490	-.00630	-.03690	.03740	.000000	.000000	.02910
.598	4.000	.01300	-.01000	-.03310	.03360	.000000	.000000	.02900
.598	5.000	.01800	-.01220	-.03100	.03060	.000000	.000000	.02970
.598	6.000	.02270	-.01410	-.02720	.02670	.000000	.000000	.02870
.598	8.000	.03110	-.01640	-.01420	.01540	.000000	.000000	.02990
.598	10.000	.04160	-.01920	.00440	.00230	.000000	.000000	.03130
.598	GRADIENT	.00497	-.00216	.00014	.00010	.000000	.000000	-.00026

RUN NO. 4322/ 0 RV/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.804	-10.000	-.06170	.01820	.03680	.00070	.000000	.000000	.03560
.804	-8.000	-.04960	.01560	.01320	.01250	.000000	.000000	.03340
.804	-6.000	-.03900	.01280	-.00840	.02360	.000000	.000000	.03330
.804	-5.000	-.03330	.01060	-.01810	.02870	.000000	.000000	.03310
.804	-4.000	-.02740	.00810	-.02640	.03330	.000000	.000000	.03250
.804	-2.000	-.01610	.00300	-.03820	.04050	.000000	.000000	.03090
.804	.000	-.00640	-.00050	-.04320	.04350	.000000	.000000	.03060
.804	2.000	.00580	-.00730	-.04350	.04320	.000000	.000000	.03220
.804	4.000	.01480	-.01070	-.03230	.03360	.000000	.000000	.03060
.804	5.000	.01950	-.01240	-.02730	.03010	.000000	.000000	.03030
.804	6.000	.02450	-.01410	-.02100	.02570	.000000	.000000	.03040
.804	8.000	.03460	-.01740	-.00450	.01520	.000000	.000000	.03190
.804	10.000	.04590	-.02100	.02060	.00030	.000000	.000000	.03320
.804	GRADIENT	.00530	-.00234	-.00089	.00016	.000000	.000000	-.00021

MSFC 570 (1A31F) (S3/2)/(O3) (T9)/(S3/2)

(H93065) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
SREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 416.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 GRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4232/ 0 RIVL = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.06040	.01480	.04120	.00260	.00000	.00000	.02460
.900	-8.000	-.04900	.01290	.01990	.01230	.00000	.00000	.02640
.900	-6.000	-.03910	.01220	-.00460	.02310	.00000	.00000	.02600
.900	-5.000	-.03390	.01090	-.01360	.02740	.00000	.00000	.02600
.900	-4.000	-.02960	.00900	-.02130	.03120	.00000	.00000	.02590
.900	-2.000	-.01720	.00410	-.03260	.03730	.00000	.00000	.02550
.900	.000	-.00650	-.00090	-.03950	.04040	.00000	.00000	.02460
.900	2.000	.00460	-.00690	-.03770	.03990	.00000	.00000	.02590
.900	4.000	.01730	-.01460	-.03340	.03630	.00000	.00000	.02550
.900	5.000	.02160	-.01650	-.02990	.03240	.00000	.00000	.02550
.900	6.000	.02610	-.01910	-.02320	.02910	.00000	.00000	.02730
.900	8.000	.03610	-.02130	-.00960	.01960	.00000	.00000	.03010
.900	10.000	.04370	-.02400	.01330	.00550	.00000	.00000	.00000
GRADIENT		.00561	-.00292	-.00150	.00056	.00000	.00000	.00000

RUN NO. 4231/ 0 RIVL = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.06690	.01620	.03750	.00360	.00000	.00000	.01920
1.047	-8.000	-.05530	.01600	.01180	.01340	.00000	.00000	.01910
1.047	-6.000	-.04460	.01320	-.01240	.02640	.00000	.00000	.01690
1.047	-5.000	-.03970	.01310	-.02350	.03150	.00000	.00000	.01540
1.047	-4.000	-.03430	.01420	-.03240	.03620	.00000	.00000	.01470
1.047	-2.000	-.02240	.01050	-.04360	.04410	.00000	.00000	.01300
1.047	.000	-.01150	.00600	-.04350	.04580	.00000	.00000	.01230
1.047	2.000	.00060	-.00150	-.03770	.04190	.00000	.00000	.01190
1.047	4.000	.01360	-.00990	-.03000	.03520	.00000	.00000	.01030
1.047	5.000	.01950	-.01340	-.02560	.03130	.00000	.00000	.01120
1.047	6.000	.02550	-.01660	-.01970	.02690	.00000	.00000	.01240
1.047	8.000	.03760	-.02210	-.00320	.01610	.00000	.00000	.01500
1.047	10.000	.05060	-.02700	.02010	.00250	.00000	.00000	.01940
GRADIENT		.00593	-.00292	.00012	-.00011	.00000	.00000	.00000

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(O3) (T9)/(S3/2)

(M83R65) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LRFP = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4230/ 0 RM/L = 6.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	-.07870	.01770	.05440	-.00140	.00000	.00000	.03000
1.247	-6.000	-.06100	.01400	.02620	.01090	.00000	.00000	.02770
1.247	-6.000	-.04710	.01150	-.00080	.02360	.00000	.00000	.02730
1.247	-5.000	-.04110	.01070	-.01400	.03010	.00000	.00000	.02730
1.247	-4.000	-.03560	.01030	-.02580	.03660	.00000	.00000	.02730
1.247	-2.000	-.02570	.01020	-.04300	.04730	.00000	.00000	.02720
1.247	.000	-.01620	.00990	-.04620	.05010	.00000	.00000	.02610
1.247	8.000	-.00690	.00490	-.04140	.04690	.00000	.00000	.02920
1.247	4.000	.00700	-.00390	-.03390	.04120	.00000	.00000	.03590
1.247	5.000	.01240	-.00630	-.03090	.03920	.00000	.00000	.03120
1.247	6.000	.01640	-.00900	-.02600	.03610	.00000	.00000	.03160
1.247	8.000	.03370	-.01610	-.00920	.02630	.00000	.00000	.03290
1.247	10.000	.04760	-.02120	.01780	.01220	.00000	.00000	.03560
GRADIENT		.00526	-.00169	-.00126	.00070	.00000	.00000	.00042

RUN NO. 4324/ 0 RM/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-10.000	-.06690	.02660	.05460	-.00620	.00000	.00000	.03970
1.461	-6.000	-.06680	.01880	.02840	.00770	.00000	.00000	.03900
1.461	-6.000	-.04970	.01400	-.00030	.02390	.00000	.00000	.03750
1.461	-5.000	-.04300	.01280	-.01360	.03130	.00000	.00000	.03760
1.461	-4.000	-.03770	.01260	-.02530	.03800	.00000	.00000	.03770
1.461	-2.000	-.02940	.01340	-.04230	.04780	.00000	.00000	.03820
1.461	.000	-.02170	.01410	-.04860	.05120	.00000	.00000	.03910
1.461	2.000	-.01130	.01070	-.04300	.04770	.00000	.00000	.04940
1.461	4.000	.00510	.00900	-.03380	.04240	.00000	.00000	.04510
1.461	5.000	.01220	-.00340	-.02950	.03970	.00000	.00000	.04400
1.461	6.000	.01910	-.00640	-.02340	.03620	.00000	.00000	.04330
1.461	8.000	.03240	-.01070	-.00550	.02690	.00000	.00000	.04390
1.461	10.000	.04640	-.01490	.02030	.01420	.00000	.00000	.04470
GRADIENT		.00537	-.00152	-.00128	.00066	.00000	.00000	.00073

REFERENCE DATA

BREF = .9780 SQ. IN XMRP = 2.5490 IN.
LREF = 9.3130 IN. YMRP = .0000 IN.
BREF = 9.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 416.000
DELTA = .140 RUDDER = .000
X-SRB = .000 CROINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4234/ 0 RM/L = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.969	-10.000	-.10360	.03630	.03360	-.01690	.00000	.00000	.02180
1.969	-8.000	-.07690	.02630	.04050	-.01000	.00000	.00000	.01960
1.969	-6.000	-.03930	.01930	.01900	.00470	.00000	.00000	.01900
1.969	-4.000	-.03100	.01760	.00350	.01320	.00000	.00000	.02010
1.969	-2.000	-.04400	.01630	-.00600	.02060	.00000	.00000	.02100
1.969	.000	-.03160	.01470	-.02450	.03220	.00000	.00000	.02090
1.969	2.000	-.02070	.01320	-.03290	.03930	.00000	.00000	.02040
1.969	4.000	-.01090	.01070	-.03290	.04030	.00000	.00000	.02120
1.969	6.000	-.00160	.00930	-.02980	.03960	.00000	.00000	.02540
1.969	8.000	.00490	.00570	-.02340	.03310	.00000	.00000	.02610
1.969	10.000	.01260	.00250	-.01630	.03030	.00000	.00000	.02640
GRADIENT		.03130	-.00340	.00290	.01690	.00000	.00000	.02590
		.04480	-.01600	.02390	.00410	.00000	.00000	.02660
		.00345	-.00111	-.00280	.00220	.00000	.00000	.00034

RUN NO. 4333/ 0 RM/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10410	.04930	.03300	-.01060	.00000	.00000	.01630
2.990	-8.000	-.06470	.03630	.02700	-.00910	.00000	.00000	.01620
2.990	-6.000	-.06360	.02700	.01820	-.00470	.00000	.00000	.01610
2.990	-4.000	-.03340	.02170	.01220	-.00970	.00000	.00000	.01610
2.990	-2.000	-.04420	.01730	.00490	.00460	.00000	.00000	.01610
2.990	.000	-.02840	.01000	-.01210	.01770	.00000	.00000	.01590
2.990	2.000	-.01660	.00700	-.02360	.02840	.00000	.00000	.01570
2.990	4.000	-.00800	.00630	-.02960	.03230	.00000	.00000	.01560
2.990	6.000	.00170	.00390	-.02630	.03100	.00000	.00000	.01530
2.990	8.000	.00350	.00240	-.02280	.02900	.00000	.00000	.01490
2.990	10.000	.01090	.00090	-.01840	.02590	.00000	.00000	.01460
GRADIENT		.02590	-.00370	-.00630	.01640	.00000	.00000	.01460
		.04690	-.01690	.00990	.00230	.00000	.00000	.01540
		.00377	-.00179	-.00372	.00315	.00000	.00000	-.00011

MSFC 970 (1A31F) (53/2)/(03) (T9)/(53/2)

(M83R85) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCNFIG = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4235/ 0 RWL = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09700	.04570	.03520	-.01190	.00000	.00000	.00530
3.480	-8.000	-.07870	.03650	.02820	-.00910	.00000	.00000	.00640
3.480	-6.000	-.05960	.02660	.01970	-.00330	.00000	.00000	.00750
3.480	-5.000	-.04990	.02160	.01400	-.00180	.00000	.00000	.00790
3.480	-4.000	-.04100	.01700	.00760	.00240	.00000	.00000	.00840
3.480	-2.000	-.02570	.00960	-.00670	.01340	.00000	.00000	.00920
3.480	.000	-.01420	.00630	-.01940	.02410	.00000	.00000	.01040
3.480	2.000	-.00580	.00530	-.02220	.02760	.00000	.00000	.00940
3.480	4.000	.00410	.03150	-.01940	.02560	.00000	.00000	.01120
3.480	5.000	.00850	.00330	-.01460	.02300	.00000	.00000	.01140
3.480	6.000	.01400	-.00140	-.01050	.01990	.00000	.00000	.01150
3.480	8.000	.03010	-.00830	-.00170	.01230	.00000	.00000	.01110
3.480	10.000	.04810	-.01670	.00700	.00630	.00000	.00000	.01120
GRADIENT		.00569	-.00197	-.00309	.00272	.00000	.00000	.00032

RUN NO. 4332/ 0 RWL = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07430	.04080	.02190	-.00400	.00000	.00000	.00420
4.960	-8.000	-.05510	.03620	.01860	-.00460	.00000	.00000	.00490
4.960	-6.000	-.03200	.02920	.01260	-.00170	.00000	.00000	.00510
4.960	-5.000	-.04330	.02410	.00950	.00110	.00000	.00000	.00510
4.960	-4.000	-.03600	.02010	.00360	.00460	.00000	.00000	.00510
4.960	-2.000	-.02510	.01500	-.00760	.01300	.00000	.00000	.00510
4.960	.000	-.01480	.01150	-.01530	.01980	.00000	.00000	.00500
4.960	2.000	-.00620	.00830	-.01500	.02010	.00000	.00000	.00500
4.960	4.000	.00460	.00240	-.01080	.01700	.00000	.00000	.00480
4.960	5.000	.01090	-.00150	-.00730	.01420	.00000	.00000	.00460
4.960	6.000	.01780	-.00620	-.00290	.01060	.00000	.00000	.00440
4.960	8.000	.03330	-.01760	.00880	.00090	.00000	.00000	.00390
4.960	10.000	.03110	-.03170	.02440	-.01200	.00000	.00000	.00300
GRADIENT		.00524	-.00236	-.00169	.00144	.00000	.00000	-.00004

(W93R66) (21 AUG 74)

NSFC 370 (1A31F) (S3/2)/(C3) (T9)/(S3/2)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN. XMRP = 2.5490 IN.
.9720 SQ. IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 416.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4312/ 0 RIVL = 4.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.597	-10.000	.02380	-.02640	.01580	.01650	-.00430	.00000	.02610
.597	-8.000	.02410	-.02610	-.00710	.01970	-.00440	.00000	.02760
.597	-6.000	.02510	-.02280	-.02280	.02440	-.00360	.00000	.03000
.597	-4.000	.01150	-.01460	-.03190	.03220	-.00210	.00000	.03190
.597	-2.000	-.00030	-.00500	-.03490	.03900	.00000	.00000	.03190
.597	.000	-.01040	.00330	-.04330	.04290	.00190	.00000	.03270
.597	2.000	-.02090	.01120	-.05070	.04670	.00380	.00000	.03520
.597	4.000	-.02930	.01740	-.05460	.04930	.00340	.00000	.03750
.597	6.000	-.04070	.02490	-.06200	.05440	.00740	.00000	.03990
.597	8.000	-.04990	.03080	-.06840	.05910	.00990	.00000	.04040
.597	10.000	-.05600	.03530	-.07710	.06530	.01020	.00000	.04070
GRADIENT		-.00517	.00401	-.00256	.00215	.00094	.00000	.00073

RUN NO. 4311/ 0 RIVL = 5.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.804	-10.000	.03500	-.03620	.04220	-.02450	-.00640	.00000	.02710
.804	-8.000	.02890	-.03100	.04220	-.00080	-.00530	.00000	.02670
.804	-6.000	.01970	-.02370	-.00030	.02340	-.00360	.00000	.02790
.804	-4.000	.01280	-.01740	-.02950	.03430	-.00230	.00000	.02990
.804	-2.000	.00060	-.00690	-.03990	.04090	-.00010	.00000	.03190
.804	.000	-.01260	.00490	-.04360	.04320	.00230	.00000	.03050
.804	2.000	-.02310	.01270	-.04660	.04490	.00420	.00000	.03300
.804	4.000	-.03440	.02110	-.05190	.04860	.00630	.00000	.03700
.804	6.000	-.04490	.02980	-.05870	.05390	.00820	.00000	.04040
.804	8.000	-.05310	.03440	-.06620	.05900	.00970	.00000	.04330
.804	10.000	-.06170	.04030	-.07440	.06320	.01120	.00000	.04460
GRADIENT		-.00490	.00492	-.00257	.00163	.00107	.00000	.00074

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TABULATED SOURCE DATA - WSFC 570

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MSFC 570 (1A31F) (S3/2)/(Q3) (T9)/(S3/2)

(M03R56) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF1G = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4310/ 0 RVL = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	.03390	-.03370	.10710	-.04270	-.00620	.00000	.02620
.901	-8.000	.02860	-.02980	.06670	-.01990	-.00320	.00000	.02640
.901	-6.000	.02320	-.02790	.02680	.00410	-.00460	.00000	.02750
.901	-4.000	.01560	-.02320	-.01560	.02890	-.00290	.00000	.02900
.901	-2.000	.00220	-.00820	-.03940	.04120	-.00340	.00000	.02970
.901	.000	-.01260	.00490	-.04480	.04530	.00230	.00000	.02960
.901	2.000	-.02430	.01440	-.04700	.04620	.00440	.00000	.03290
.901	4.000	-.03650	.02370	-.05250	.05000	.00660	.00000	.03730
.901	6.000	-.04330	.02970	-.05900	.05520	.00620	.00000	.04070
.901	8.000	-.05370	.03580	-.06710	.06150	.00990	.00000	.04400
.901	10.000	-.06160	.04100	-.07740	.06910	.01130	.00000	.04690
GRADIENT	-.00553	.00552	-.00407	.00236	.00118	.00050	.00000	.00000

RUN NO. 4314/ 0 RVL = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.042	-10.000	.04430	-.04240	.13410	-.06110	-.00910	.00000	.02040
1.042	-8.000	.03210	-.03280	.09400	-.03290	-.00390	.00000	.02090
1.042	-6.000	.02430	-.02680	.03800	-.00620	-.00440	.00000	.02220
1.042	-4.000	.01030	-.02070	-.00390	.01830	-.00290	.00000	.02120
1.042	-2.000	.00230	-.00870	-.04930	.04930	-.00040	.00000	.02470
1.042	.000	-.01670	.00960	-.03280	.05370	.00300	.00000	.02260
1.042	2.000	-.02970	.02040	-.06040	.05950	.00540	.00000	.02910
1.042	4.000	-.03930	.02780	-.06700	.06390	.00720	.00000	.03140
1.042	6.000	-.04660	.03290	-.07660	.07120	.00950	.00000	.03740
1.042	8.000	-.05320	.03700	-.08390	.07610	.00970	.00000	.03900
1.042	10.000	-.06020	.04130	-.09190	.08220	.01090	.00000	.04340
GRADIENT	-.00716	.00630	-.00691	.00505	.00130	.00000	.00000	.00119

(443R66) (21 AUG 74)

MSFC 570 (TAS1F) (S3/2)/(03) (T9)/(S3/2)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SPD = .000 CORNING = .500
 SPACER = .000 SPADTA = .000
 SPACAF = .000

RUN NO. 4313/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.244	-10.000	.04380	-.04440	.14410	-.06620	-.00900	.00000	.03490
1.244	-8.000	.03390	-.03660	.09290	-.03650	-.00610	.00000	.03600
1.244	-6.000	.02470	-.02940	.04760	-.01050	-.00450	.00000	.03770
1.244	-4.000	.01130	-.01320	.00410	.01420	-.00200	.00000	.03960
1.244	-2.000	-.00690	-.00210	-.04520	.04910	.00120	.00000	.04140
1.244	.000	-.02420	.01590	-.03460	.03750	.00440	.00000	.04000
1.244	2.000	-.03490	.02430	-.05990	.03960	.00630	.00000	.04390
1.244	4.000	-.04290	.02990	-.06340	.06160	.00770	.00000	.04740
1.244	6.000	-.05040	.03330	-.07160	.06690	.00920	.00000	.05020
1.244	8.000	-.05710	.04010	-.08240	.07410	.01040	.00000	.05290
1.244	10.000	-.06370	.04590	-.09330	.08190	.01200	.00000	.05630
GRADIENT		-.00678	.00513	-.00743	.00526	.00122	.00000	.00090

RUN NO. 4327/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.463	-10.000	.03190	-.03460	.15160	-.07990	-.00390	.00000	.03210
1.463	-8.000	.02320	-.02520	.09340	-.04500	-.00400	.00000	.03430
1.463	-6.000	.01370	-.01750	.04110	-.01490	-.00250	.00000	.03790
1.463	-4.000	.00070	-.00330	-.00440	.01670	-.00010	.00000	.03990
1.463	-2.000	-.01320	.01060	-.04320	.04770	.00270	.00000	.04190
1.463	.000	-.02330	.01840	-.04540	.04930	.00420	.00000	.03950
1.463	2.000	-.02890	.02260	-.03020	.05120	.00520	.00000	.04170
1.463	4.000	-.03260	.02480	-.05470	.03290	.00590	.00000	.04440
1.463	6.000	-.03580	.02560	-.06290	.05920	.00650	.00000	.04660
1.463	8.000	-.04280	.02950	-.07290	.06350	.00790	.00000	.04950
1.463	10.000	-.05260	.03700	-.08370	.07340	.00960	.00000	.05490
GRADIENT		-.00401	.00359	-.00339	.00378	.00072	.00000	.00054



DATE 08 NOV 74

TABULATED SOURCE DATA - HSFC 570

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HSFC 570 (1A31F) (S3/2)/(O3) (T9)/(S3/2)

(M03R66) (21 AUG 74)

REFERENCE DATA

SREF = .9780 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 ZREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 416.000
 DELTA = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4328/ 0 RVL = 7.02 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.973	-10.000	.03070	-.03270	.14190	-.07000	-.00360	.00000	.02500
1.973	-8.000	.01990	-.02260	.08960	-.03950	-.00360	.00000	.02630
1.973	-6.000	.00810	-.01160	.04280	-.01220	-.00140	.00000	.02930
1.973	-4.000	-.00250	-.00170	-.00320	.01730	.00040	.00000	.02990
1.973	-2.000	-.00970	.00560	-.03230	.03930	.00170	.00000	.03700
1.973	.000	-.01250	.00810	-.03540	.03620	.00220	.00000	.03070
1.973	2.000	-.01640	.01040	-.04330	.04310	.00300	.00000	.03120
1.973	4.000	-.02170	.01450	-.05010	.04730	.00390	.00000	.03190
1.973	6.000	-.02690	.01840	-.05590	.03070	.00490	.00000	.03330
1.973	8.000	-.03330	.02370	-.06450	.03690	.00610	.00000	.03320
1.973	10.000	-.04270	.03120	-.07220	.06250	.00780	.00000	.03090
	GRADIENT	-.00225	.00186	-.00525	.00324	.00041	.00000	.00026

RUN NO. 4329/ 0 RVL = 4.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.01200	-.01650	.04270	.00500	-.00220	.00000	.01200
2.990	-8.000	.00580	-.01110	.01130	.01270	-.00120	.00000	.01240
2.990	-6.000	.00130	-.00460	-.00320	.01490	-.00020	.00000	.01350
2.990	-4.000	-.00230	-.00070	-.01310	.02010	.00040	.00000	.01410
2.990	-2.000	-.00500	.00120	-.02090	.02630	.00090	.00000	.01490
2.990	.000	-.01080	.00790	-.02840	.03150	.00190	.00000	.01590
2.990	2.000	-.01750	.01370	-.03540	.03600	.00320	.00000	.01690
2.990	4.000	-.02320	.01930	-.04190	.03920	.00420	.00000	.01570
2.990	6.000	-.02750	.02320	-.04770	.04320	.00550	.00000	.01310
2.990	8.000	-.03410	.02970	-.05400	.04760	.00620	.00000	.01320
2.990	10.000	-.04140	.03650	-.05810	.05040	.00730	.00000	.01600
	GRADIENT	-.00271	.00262	-.00360	.00239	.00030	.00000	.00022

WSFC 370 (1A31F) (S3/2)/(03) (T9)/(S3/2)

(485R66) (21 AUG 74)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9780 SQ. IN XMRP = 2.3490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

ALPHA =
DELTA Z =
X-SRB =
SPACER =
SPAGAP =

.000 COAFIG = 416.000
.140 RUDDER = .000
.000 CRBINC = .300
.000 SPADIA = .000
.000

PARAMETRIC DATA

RUN NO. 4330/ 0 RM/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.01990	-.02580	.04180	-.01690	-.00360	.00000	.00840
3.480	-8.000	.00990	-.01450	.01950	-.00290	-.00180	.00000	.00990
3.480	-6.000	.00230	-.00610	.00250	.00840	-.00040	.00000	.01020
3.480	-4.000	-.00260	-.00060	-.00970	.01700	.00040	.00000	.01060
3.480	-2.000	-.00530	.00210	-.01730	.02290	.00090	.00000	.01100
3.480	.000	-.01150	.00870	-.02520	.02870	.00210	.00000	.01160
3.480	2.000	-.01770	.01520	-.03230	.03330	.00320	.00000	.01190
3.480	4.000	-.02330	.02110	-.03930	.03600	.00420	.00000	.00900
3.480	6.000	-.02760	.02530	-.04350	.03970	.00500	.00000	.00670
3.480	8.000	-.03410	.03220	-.04920	.04410	.00620	.00000	.00900
3.480	10.000	-.04020	.03630	-.05370	.04750	.00730	.00000	.01170
GRADIENT		-.00269	.00282	-.00361	.00242	.00050	.00000	-.00022

RUN NO. 4331/ 0 RM/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	.02290	-.01130	-.00490	.01360	-.00410	.00000	.00510
4.960	-8.000	.01130	-.00700	-.00070	.00940	-.00200	.00000	.00480
4.960	-6.000	.00270	-.00280	.00010	.00820	-.00040	.00000	.00470
4.960	-4.000	-.00290	.00110	-.00200	.00990	.00050	.00000	.00470
4.960	-2.000	-.00370	.00500	-.00750	.01450	.00100	.00000	.00470
4.960	.000	-.00370	.00930	-.01360	.02120	.00170	.00000	.00450
4.960	2.000	-.01410	.01470	-.02470	.02920	.00250	.00000	.00440
4.960	4.000	-.01840	.02010	-.03010	.03220	.00330	.00000	.00290
4.960	6.000	-.02300	.02470	-.03370	.03510	.00420	.00000	.00250
4.960	8.000	-.02930	.03220	-.04030	.03980	.00530	.00000	.00270
4.960	10.000	-.03590	.03980	-.05050	.05010	.00670	.00000	.00350
GRADIENT		-.00197	.00238	-.00367	.00291	.00035	.00000	-.00019

MSFC 370 (1A31F) (S3/2)/(03) (T10)/(S3/2)

(R83R67) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 418.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4321/ 0 RW/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.07840	.02370	.04280	.00590	.00000	.00000	.02870
1.047	-8.000	-.06340	.02120	.01280	.01480	.00000	.00000	.02630
1.047	-6.000	-.05080	.01940	-.01170	.02810	.00000	.00000	.02350
1.047	-4.000	-.03610	.01670	-.03590	.04200	.00000	.00000	.02330
1.047	-2.000	-.02340	.01210	-.04950	.04950	.00000	.00000	.02290
1.047	.000	-.01320	.00640	-.03180	.05220	.00000	.00000	.02120
1.047	2.000	.00010	-.00140	-.04780	.04990	.00000	.00000	.02170
1.047	4.000	.01470	-.00960	-.03670	.04210	.00000	.00000	.01990
1.047	6.000	.02960	-.01880	-.02230	.03190	.00000	.00000	.02390
1.047	8.000	.04360	-.02570	-.00100	.01830	.00000	.00000	.02700
1.047	10.000	.05730	-.03110	.02520	.00320	.00000	.00000	.02960
GRADIENT		.00655	-.00330	.00000	.00003	.00000	.00000	-.00040

RUN NO. 4323/ 0 RW/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.08760	.02330	.06170	-.00490	.00000	.00000	.04230
1.251	-8.000	-.06750	.01900	.03190	.00810	.00000	.00000	.03940
1.251	-6.000	-.05160	.01490	.00250	.02230	.00000	.00000	.03950
1.251	-4.000	-.03840	.01210	-.02500	.03690	.00000	.00000	.04090
1.251	-2.000	-.02730	.01080	-.04530	.04900	.00000	.00000	.04210
1.251	.000	-.01770	.00950	-.03410	.05470	.00000	.00000	.04290
1.251	2.000	-.00640	.00480	-.04760	.05080	.00000	.00000	.04370
1.251	4.000	.01260	-.00790	-.03700	.04400	.00000	.00000	.04720
1.251	6.000	.02520	-.01340	-.02510	.03750	.00000	.00000	.04740
1.251	8.000	.03970	-.01940	-.00340	.02530	.00000	.00000	.04960
1.251	10.000	.05440	-.02480	.02770	.01000	.00000	.00000	.05160
GRADIENT		.00614	-.00230	-.00132	.00081	.00000	.00000	.00071

NSFC 370 (1A31F) (S3/2)/(03) (T10)/(S3/2)

(R83R88) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COEFFIC = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CPBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4316/ 0 RN/L = 6.16 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.896	-10.000	.01710	-.01740	.14300	-.09160	-.00310	.00000	.03390
.896	-8.000	.02100	-.01740	.10030	-.06460	-.00390	.00000	.03350
.896	-6.000	.02330	-.01830	.05170	-.02850	-.00420	.00000	.03300
.896	-4.000	.02530	-.01930	.00110	.01110	-.00460	.00000	.03250
.896	-2.000	.02740	-.02050	-.02370	.03140	-.00390	.00000	.03240
.896	.000	.02300	-.01690	-.03110	.03430	-.00420	.00000	.03040
.896	2.000	.01460	-.00990	-.03570	.03780	-.00260	.00000	.02970
.896	4.000	.00870	-.00480	-.04200	.04320	-.00150	.00000	.03370
.896	6.000	.00250	.00000	-.04930	.04920	-.00040	.00000	.03750
.896	8.000	-.00330	.00440	-.05710	.05570	.00050	.00000	.04010
.896	10.000	-.00970	.00990	-.06460	.06200	.00170	.00000	.04320
GRADIENT		-.00230	.00198	-.00481	.00353	.00043	.00000	-.00002

RUN NO. 4315/ 0 RN/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.043	-10.000	.02340	-.02880	.17530	-.11260	-.00460	.00000	.02960
1.043	-8.000	.02100	-.02090	.11930	-.07750	-.00390	.00000	.02950
1.043	-6.000	.02260	-.02000	.06680	-.03880	-.00410	.00000	.02840
1.043	-4.000	.02440	-.02010	.01240	.00390	-.00440	.00000	.02610
1.043	-2.000	.02610	-.02030	-.02410	.03190	-.00470	.00000	.02570
1.043	.000	.02120	-.01560	-.03610	.04030	-.00390	.00000	.02490
1.043	2.000	.01290	-.00810	-.04140	.04420	-.00230	.00000	.02600
1.043	4.000	.00710	-.00310	-.04740	.04890	-.00130	.00000	.03010
1.043	6.000	.00190	.00070	-.05450	.05470	-.00030	.00000	.03470
1.043	8.000	-.00390	.00460	-.06150	.06060	.00070	.00000	.03750
1.043	10.000	-.01090	.00930	-.06900	.06610	.00190	.00000	.03910
GRADIENT		-.00239	.00231	-.00584	.00310	.00043	.00000	.00041



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TABULATED SOURCE DATA - NSFC 370

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NSFC 370 (1A31F) (S3/2)/(03) (T10)/(S3/2)

(R03R00) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFIG = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 4317/ 0 RNVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	.01770	-.02330	.18890	-.11950	-.00320	.00000	.04330
1.253	-8.000	.01310	-.01400	.12960	-.03190	-.00240	.00000	.04330
1.253	-6.000	.01330	-.01350	.07060	-.03660	-.00290	.00000	.04370
1.253	-4.000	.01640	-.01490	.01920	.00430	-.00330	.00000	.04420
1.253	-2.000	.01610	-.01220	-.02420	.03430	-.00330	.00000	.04430
1.253	.000	.01800	-.00320	-.03690	.04490	-.00280	.00000	.04590
1.253	2.000	.00340	.00310	-.04470	.04890	-.00080	.00000	.04770
1.253	4.000	-.00310	.00910	-.05100	.05330	.00030	.00000	.04860
1.253	6.000	-.00790	.01230	-.05610	.05690	.00140	.00000	.04990
1.253	8.000	-.01300	.01480	-.06210	.06140	.00230	.00000	.05210
1.253	10.000	-.02010	.01900	-.07030	.06930	.00360	.00000	.05530
	GRADIENT	-.00268	.00313	-.00764	.00362	.00051	.00000	.00063

RUN NO. 4326/ 0 RNVL = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-10.000	.01730	-.01950	.20990	-.13430	-.00310	.00000	.03930
1.462	-8.000	.01070	-.00860	.14110	-.08870	-.00190	.00000	.04100
1.462	-6.000	.01060	-.00640	.07610	-.03970	-.00190	.00000	.03970
1.462	-4.000	.01330	-.00670	.01960	.00470	-.00240	.00000	.04030
1.462	-2.000	.01420	-.00520	-.01760	.03110	-.00260	.00000	.04360
1.462	.000	.01130	-.00120	-.03140	.03920	-.00200	.00000	.04660
1.462	2.000	.00740	.00290	-.03690	.04150	-.00130	.00000	.04590
1.462	4.000	.00310	.00680	-.04230	.04470	-.00090	.00000	.04530
1.462	6.000	-.00070	.00940	-.04730	.04800	.00010	.00000	.04720
1.462	8.000	-.00330	.01170	-.05450	.05390	.00090	.00000	.04790
1.462	10.000	-.00980	.01310	-.06270	.06070	.00180	.00000	.04990
	GRADIENT	-.00136	.00175	-.00707	.00452	.00023	.00000	.00059

MSFC 370 (1431F) (S3/2)/(C3) (T10)/(S3/2)

(R83R89) (04 OCT 73)

REFERENCE DATA

REF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. XMRP = .0000 IN.
BREF = 3.3130 IN. XMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFLG = 416.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4337/ 0 RV/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.02840	-.01300	.03020	-.01100	-.00310	.00000	.00390
2.990	-8.000	.02190	-.00930	.02260	-.00520	-.00400	.00000	.00340
2.990	-6.000	.01710	-.00320	.01430	.00110	-.00310	.00000	.01200
2.990	-4.000	.01410	-.00260	.00530	.00610	-.00210	.00000	.01370
2.990	-2.000	.01270	-.00040	-.00420	.01370	-.00230	.00000	.01440
2.990	.000	.01220	.00100	-.01390	.02230	-.00220	.00000	.01490
2.990	2.000	.01130	.00310	-.02290	.02790	-.00200	.00000	.01530
2.990	4.000	.00990	.00630	-.03040	.03220	-.00190	.00000	.01300
2.990	6.000	.00850	.00990	-.03590	.03600	-.00190	.00000	.01010
2.990	8.000	.00640	.01100	-.04400	.04100	-.00110	.00000	.01160
2.990	10.000	.00240	.01490	-.05010	.04500	-.00040	.00000	.01490
	GRADIENT	-.00049	.00106	-.00430	.00302	.00009	.00000	-.00003

RUN NO. 4336/ 0 RV/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.02620	-.01560	.03110	-.00620	-.00310	.00000	-.00190
3.480	-8.000	.02210	-.01040	.02200	-.00170	-.00400	.00000	.00360
3.480	-6.000	.01770	-.00640	.01340	.00290	-.00320	.00000	.00760
3.480	-4.000	.01500	-.00360	.00350	.00790	-.00270	.00000	.01000
3.480	-2.000	.01410	-.00200	-.00170	.01290	-.00250	.00000	.01090
3.480	.000	.01400	-.00050	-.01000	.01930	-.00250	.00000	.01100
3.480	2.000	.01290	.00220	-.01920	.02420	-.00230	.00000	.01120
3.480	4.000	.01130	.00600	-.02600	.02930	-.00200	.00000	.00910
3.480	6.000	.01080	.00900	-.03170	.03180	-.00190	.00000	.00790
3.480	8.000	.00910	.01010	-.03900	.03630	-.00160	.00000	.00950
3.480	10.000	.00500	.01440	-.04340	.04000	-.00090	.00000	.01060
	GRADIENT	-.00044	.00117	-.00402	.00261	.00009	.00000	-.00007

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (IASIF) (S3/21/03) (T10)/(S3/2)

(R63R69) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 416.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 4319/ 0 RV/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.893	-10.000	.02330	-.02600	.10070	-.03560	-.00460	.00000	.02720
.893	-8.000	.01620	-.02100	.08030	-.01310	-.00290	.00000	.02590
.893	-6.000	.01220	-.02040	.02210	.00790	-.00220	.00000	.02670
.893	-4.000	.00310	-.01300	-.00670	.02710	-.00030	.00000	.02910
.893	-2.000	-.02100	.00290	-.01320	.02710	.00390	.00000	.03020
.893	.000	-.04130	.01840	-.02230	.03150	.00750	.00000	.03010
.893	2.000	-.03740	.02990	-.02660	.03310	.01050	.00000	.03340
.893	4.000	-.07300	.04010	-.03270	.03680	.01330	.00000	.03670
.893	6.000	-.08700	.04950	-.04120	.04300	.01590	.00000	.04100
.893	8.000	-.09920	.05680	-.05090	.04990	.01810	.00000	.04340
.893	10.000	-.11190	.06460	-.06240	.05900	.02040	.00000	.04460
GRADIENT		-.00943	.00685	-.00327	.00127	.00171	.00000	.00092

RUN NO. 4320/ 0 RV/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.046	-10.000	.02050	-.02230	.13410	-.03770	-.00370	.00000	.01990
1.046	-8.000	.01190	-.01920	.08440	-.02970	-.00210	.00000	.02060
1.046	-6.000	.00520	-.01730	.03840	-.00230	-.00090	.00000	.02110
1.046	-4.000	-.00470	-.01200	-.00200	.02610	.00030	.00000	.02390
1.046	-2.000	-.02920	.00610	-.01980	.03400	.00330	.00000	.02270
1.046	.000	-.05000	.02230	-.03310	.03770	.00910	.00000	.02260
1.046	2.000	-.06600	.03310	-.04390	.04450	.01200	.00000	.02660
1.046	4.000	-.08000	.04500	-.05300	.05090	.01460	.00000	.03090
1.046	6.000	-.09330	.05380	-.06450	.05960	.01700	.00000	.03660
1.046	8.000	-.10630	.06220	-.07460	.06740	.01940	.00000	.03890
1.046	10.000	-.11890	.07050	-.08790	.07820	.02170	.00000	.04320
GRADIENT		-.00937	.00715	-.00630	.00299	.00171	.00000	.00049

MSFC 570 (1A31F) (S3/2)/(03) (T10)/(S3/2)

(R03R69) (04 OCT 73)

REFERENCE DATA

SREP = .9720 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

XMRP = 2.5490 IN.
YMRP = .0000 IN.
ZMRP = .0000 IN.

PARAMETRIC DATA

ALPHA = -5.000 CONF10 = 416.000
DELTA Z = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4318/ 0 RIV/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.255	-10.000	.01580	-.02310	.14600	-.06570	-.00280	.00000	.03590
1.255	-8.000	.00980	-.02180	.09740	-.03610	-.00170	.00000	.03660
1.255	-6.000	.00430	-.02100	.05110	-.01010	-.00070	.00000	.03750
1.255	-4.000	-.00660	-.01440	.00990	.01890	.00120	.00000	.03940
1.255	-2.000	-.03180	.00470	-.00960	.02830	.00590	.00000	.04090
1.255	.000	-.03380	.02160	-.02090	.03270	.00990	.00000	.03970
1.255	2.000	-.07070	.03590	-.03220	.03770	.01290	.00000	.04160
1.255	4.000	-.08470	.04490	-.04090	.04250	.01540	.00000	.04340
1.255	6.000	-.09750	.05330	-.05090	.04840	.01780	.00000	.04740
1.255	8.000	-.11140	.06270	-.06290	.05620	.02030	.00000	.05030
1.255	10.000	-.12790	.07450	-.07550	.06440	.02340	.00000	.05180
GRADIENT		-.00975	.00744	-.00621	.00292	.00177	.00000	.00064

RUN NO. 4325/ 0 RIV/L = 6.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.463	-10.000	.01270	-.02150	.14490	-.06610	-.00230	.00000	.03610
1.463	-8.000	.00690	-.01990	.09210	-.03540	-.00120	.00000	.03690
1.463	-6.000	-.00020	-.01690	.04150	-.00430	.00000	.00000	.03660
1.463	-4.000	-.01300	-.00840	-.00020	.02350	.00230	.00000	.03770
1.463	-2.000	-.03650	.01020	-.01290	.02990	.00560	.00000	.03970
1.463	.000	-.05540	.02620	-.02530	.03570	.01010	.00000	.04060
1.463	2.000	-.07010	.03830	-.03330	.03760	.01290	.00000	.04200
1.463	4.000	-.09050	.04530	-.04070	.04050	.01470	.00000	.04420
1.463	6.000	-.09160	.05250	-.04960	.04560	.01670	.00000	.04590
1.463	8.000	-.10290	.06050	-.06090	.05290	.01890	.00000	.04810
1.463	10.000	-.11760	.07230	-.07510	.06390	.02150	.00000	.04920
GRADIENT		-.00943	.00677	-.00507	.00190	.00155	.00000	.00076



MSFC 570(1A31F) (S3/2)/(C3)(T10)/(S3/2)

(R03R69) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.9490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.0000 CONF10 = 416.0000
 DELTAZ = .140 RUDDER = .0000
 X-SRB = .0000 CRBINC = .5000
 SPACER = .0000 SPADIA = .0000
 SPAGAP = .0000

RUN NO. 4334/ 0 RIVL = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.00820	-.00950	.05590	-.00590	.00150	.00000	.01250
2.990	-8.000	-.01340	-.00370	.03000	-.00360	.00240	.00000	.01350
2.990	-6.000	-.02200	.00150	.02440	-.00580	.00400	.00000	.01470
2.990	-4.000	-.02640	.00440	.01820	-.00350	.00480	.00000	.01490
2.990	-2.000	-.03300	.00950	.00970	.00150	.00600	.00000	.01590
2.990	.000	-.04310	.01640	-.00050	.00900	.00790	.00000	.01670
2.990	2.000	-.05290	.02760	-.01120	.01500	.00960	.00000	.01660
2.990	4.000	-.06300	.03650	-.01970	.01990	.01150	.00000	.01490
2.990	6.000	-.07200	.04420	-.02760	.02440	.01310	.00000	.01560
2.990	8.000	-.07980	.05100	-.03490	.02910	.01460	.00000	.01550
2.990	10.000	-.08680	.05750	-.04210	.03380	.01580	.00000	.01510
2.990	GRADIENT	-.00465	.00411	-.00483	.00301	.00065	.00000	.00003

RUN NO. 4335/ 0 RIVL = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.02920	.01200	.04890	-.01070	.00530	.00000	.01290
3.480	-8.000	-.02500	.00610	.03920	-.01130	.00450	.00000	.01170
3.480	-6.000	-.02470	.00430	.02970	-.00970	.00450	.00000	.01120
3.480	-4.000	-.02830	.00690	.02040	-.00590	.00510	.00000	.01130
3.480	-2.000	-.03550	.01340	.01120	.00020	.00640	.00000	.01200
3.480	.000	-.04380	.02120	.00130	.00640	.00990	.00000	.01270
3.480	2.000	-.05320	.02990	-.00950	.01430	.00970	.00000	.01260
3.480	4.000	-.06160	.03780	-.01900	.02050	.01120	.00000	.01270
3.480	6.000	-.06930	.04490	-.02600	.02480	.01260	.00000	.01150
3.480	8.000	-.07820	.05290	-.03220	.02990	.01430	.00000	.01090
3.480	10.000	-.08580	.06030	-.03910	.03360	.01570	.00000	.01100
3.480	GRADIENT	-.00421	.00391	-.00497	.00334	.00077	.00000	.00017

MSFC 570 (IA31F) (S3/2)/(Q3)/(T9)/(S3/2) Y1E (R33R75) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XWRP = 2.5490 IN.
LREF = 5.3130 IN. YWRP = .0000 IN.
SREF = 5.3130 IN. ZWRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAF10 = 404.000
DELTAZ = .140 RUDDER = .000
X-SRS = .000 CRGINC = .500
SPACER = 9.100 SPADIA = .200
SPACAP = .030

RUN NO. 4267/ 0 RV/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	-.06770	.02120	.04470	-.01070	.00000	.00000	.02400
.898	-8.000	-.03370	.01810	.02060	.00000	.00000	.00000	.02160
.898	-6.000	-.04110	.01430	-.00190	.01250	.00000	.00000	.01970
.898	-4.000	-.02780	.00830	-.01730	.02150	.00000	.00000	.01960
.898	-2.000	-.01590	.00260	-.02630	.02750	.00000	.00000	.01910
.898	.000	-.00350	-.00120	-.03110	.03040	.00000	.00000	.01630
.898	2.000	.00350	-.00750	-.02750	.02760	.00000	.00000	.01890
.898	4.000	.01610	-.01310	-.02150	.02290	.00000	.00000	.01770
.898	6.000	.02330	-.01970	-.01320	.01540	.00000	.00000	.01960
.898	8.000	.03350	-.02030	.00140	.00830	.00000	.00000	.02120
.898	10.000	.04570	-.02380	.02110	-.00170	.00000	.00000	.02240
GRADIENT		.00346	-.00264	-.00048	.00014	.00000	.00000	-.00010

RUN NO. 4268/ 0 RV/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.07240	.02150	.03750	-.00650	.00000	.00000	.02630
1.049	-8.000	-.03620	.01890	.01160	.00610	.00000	.00000	.02590
1.049	-6.000	-.04590	.01660	-.01170	.01900	.00000	.00000	.02480
1.049	-4.000	-.03350	.01330	-.02890	.02940	.00000	.00000	.02230
1.049	-2.000	-.02100	.00870	-.03900	.03620	.00000	.00000	.02350
1.049	.000	-.00340	.00310	-.03780	.03790	.00000	.00000	.02240
1.049	2.000	.00200	-.00370	-.03210	.03410	.00000	.00000	.02390
1.049	4.000	.01470	-.01150	-.02380	.02720	.00000	.00000	.02060
1.049	6.000	.02540	-.01720	-.01520	.02030	.00000	.00000	.02130
1.049	8.000	.03760	-.02320	-.00170	.01160	.00000	.00000	.02390
1.049	10.000	.05200	-.03000	.01790	.00020	.00000	.00000	.02590
GRADIENT		.00597	-.00310	.00079	-.00033	.00000	.00000	-.00001

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2) Y1E

(R63R70) (0.6 OCT 75)

REFERENCE DATA

SREF = .0720 SQ. IN XMRP = 2.3490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BRFP = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF = 404.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 4289/ 0 RIV/L = 6.66 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.07485	.02200	.03870	-.00420	.00000	.00000	.03290
1.246	-8.000	-.05900	.01940	.01060	.01040	.00000	.00000	.03070
1.246	-6.000	-.04470	.01490	-.01420	.02420	.00000	.00000	.02930
1.246	-4.000	-.03180	.01180	-.03340	.03610	.00000	.00000	.02910
1.246	-2.000	-.02100	.00920	-.04410	.04440	.00000	.00000	.02930
1.246	.000	-.01190	.00630	-.04280	.04430	.00000	.00000	.02830
1.246	2.000	-.00080	.00000	-.03330	.03640	.00000	.00000	.02920
1.246	4.000	.00900	-.00430	-.02950	.03380	.00000	.00000	.02970
1.246	6.000	.02170	-.03120	-.01960	.02620	.00000	.00000	.02700
1.246	8.000	.03480	-.01890	-.00390	.01610	.00000	.00000	.02760
1.246	10.000	.05040	-.02530	.01960	.00310	.00000	.00000	.03020
	GRADIENT	.00509	-.00237	.00082	-.00053	.00000	.00000	.00006

MSFC 570 (1A31F) (S3/2)/(S3/178)/(S3/2) Y1E

(RASET1) (04 OCT 75)

REFERENCE DATA

STEP = .9720 IN. XREF = 2.5400 IN.
 LREF = 3.3100 IN. YREF = .0000 IN.
 SREF = 3.3100 IN. ZREF = .0000 IN.
 SCALE = .0010

PARAMETRIC DATA

ALPHA = .000 COMPTO = 400.000
 DELTAZ = .140 RUCCET = .000
 K-SIG = .000 CRDINC = .000
 SPACER = 9.100 STACIA = .000
 SPACAP = .000

RUN NO: 4271/ 0 RM/L = 5.5% GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
9.71	-10.000	.02180	-.03170	-.01040	.00320	-.00360	.00000	.01420
9.71	-8.000	.01010	-.01090	-.00660	.01470	-.00180	.00000	.01240
9.71	-6.000	.01130	-.01540	-.00790	.01340	-.00140	.00000	.01440
9.71	-4.000	.00460	-.01290	-.01180	.01690	-.00180	.00000	.01490
9.71	-2.000	.00400	-.00610	-.02110	.02390	-.00070	.00000	.01610
9.71	.000	-.00340	-.00290	-.02110	.02840	.00000	.00000	.01620
9.71	2.000	-.01050	.00260	-.00790	.03470	.00130	.00000	.01920
9.71	4.000	-.01180	.00810	-.01370	.04010	.00320	.00000	.02040
9.71	6.000	-.02770	.01470	-.04370	.04520	.01130	.00000	.02090
9.71	8.000	-.03620	.02080	-.06450	.04940	.00000	.00000	.02240
9.71	10.000	-.04450	.02430	-.06520	.03490	.00000	.00000	.02400
9.71	GRADIENT	-.05395	.00667	-.07397	.00291	.00064	.00000	.00071

RUN NO: 4269/ 0 RM/L = 5.5% GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
1.050	-10.000	.01400	-.01400	-.02030	.02970	-.00250	.00000	.01450
1.050	-8.000	.01020	-.01170	-.01500	.02400	-.00180	.00000	.01690
1.050	-6.000	.00920	-.01170	-.01410	.02180	-.00150	.00000	.01930
1.050	-4.000	.00770	-.01140	-.01040	.02350	-.00140	.00000	.01990
1.050	-2.000	.00070	-.00320	-.00690	.02920	-.00010	.00000	.02240
1.050	.000	-.00760	.00160	-.03730	.03750	.00130	.00000	.02540
1.050	2.000	-.01650	.00830	-.04730	.04530	.00190	.00000	.02720
1.050	4.000	-.02640	.01160	-.05490	.03110	.00440	.00000	.02820
1.050	6.000	-.03640	.02290	-.06150	.03150	.00680	.00000	.02920
1.050	8.000	-.04600	.02940	-.06870	.06090	.00840	.00000	.03110
1.050	10.000	-.05590	.03600	-.07570	.06590	.01020	.00000	.03150
1.050	GRADIENT	-.00427	.00337	-.00467	.00356	.00077	.00000	.00108



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TABULATED SOURCE DATA - WSFC 570

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MSFC 570(1A31F) (S3/2)/(O3)/(T9)/(S3/2) Y1E

(R63R71) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 404.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 4270/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.250	-10.000	.01280	-.01330	-.02210	.03250	-.00230	.00000	.01880
1.250	-8.000	.01120	-.01230	-.01740	.02690	-.00200	.00000	.02120
1.250	-6.000	.00960	-.01150	-.01660	.02490	-.00170	.00000	.02120
1.250	-4.000	.00800	-.00950	-.02130	.02720	-.00100	.00000	.02390
1.250	-2.000	-.00250	-.00090	-.03050	.03450	.00040	.00000	.02510
1.250	.000	-.01030	.00490	-.04080	.04300	.00190	.00000	.02890
1.250	2.000	-.01780	.01060	-.04970	.04970	.00320	.00000	.02940
1.250	4.000	-.02580	.01630	-.05570	.03560	.00470	.00000	.03140
1.250	6.000	-.03470	.02250	-.06180	.03750	.00630	.00000	.03220
1.250	8.000	-.04410	.02960	-.06960	.06190	.00900	.00000	.03250
1.250	10.000	-.05410	.03720	-.07600	.06670	.00990	.00000	.03190
	GRADIENT	-.00392	.00305	-.00435	.00335	.00071	.00000	.00099

MSFC 570 (1A31F) (S3/2)/(Q3)/(T9)/(S3/2) Y10

(R03R72) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN. XMRP = 2.5490 IN.
.93130 IN. YMRP = .0000 IN.
.93130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 409.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CR91NC = .500
SPACER = 21.220 SPADIA = .200
SPACAP = .050

RUN NO. 4258/ 0 RV/L = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.895	-10.000	-.06440	.01870	.04830	-.01240	.00000	.00000	.03310
.895	-8.000	-.05120	.01510	.02640	-.00190	.00000	.00000	.03160
.895	-6.000	-.03890	.01120	.00360	.00920	.00000	.00000	.03540
.895	-4.000	-.02550	.00540	-.01210	.01910	.00000	.00000	.02900
.895	-2.000	-.01310	-.00030	-.02360	.02490	.00000	.00000	.02400
.895	.000	-.00400	-.00390	-.02830	.02160	.00000	.00000	.02860
.895	2.000	.00710	-.01090	-.02690	.02570	.00000	.00000	.02970
.895	4.000	.01890	-.01690	-.02100	.02200	.00000	.00000	.03070
.895	6.000	.02660	-.01920	-.01390	.01590	.00000	.00000	.03130
.895	8.000	.03610	-.02260	.00070	.00640	.00000	.00000	.03390
.895	10.000	.04720	-.02660	.02130	-.00600	.00000	.00000	.03690
GRADIENT		.00544	-.00270	-.00101	.00044	.00000	.00000	.00025

RUN NO. 4260/ 0 RV/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.07200	.02110	.03900	-.00890	.00000	.00000	.02950
1.047	-8.000	-.05900	.01840	.01390	.00400	.00000	.00000	.02430
1.047	-6.000	-.04470	.01550	-.00980	.01690	.00000	.00000	.02770
1.047	-4.000	-.03160	.01170	-.02690	.02770	.00000	.00000	.02720
1.047	-2.000	-.02020	.00770	-.03630	.03440	.00000	.00000	.02510
1.047	.000	-.00990	.00230	-.03620	.03390	.00000	.00000	.02510
1.047	2.000	.00300	-.00510	-.03010	.03150	.00000	.00000	.02560
1.047	4.000	.01570	-.01270	-.02340	.02610	.00000	.00000	.02540
1.047	6.000	.02700	-.01450	-.01490	.01950	.00000	.00000	.02690
1.047	8.000	.03930	-.02590	.00980	.00870	.00000	.00000	.02740
1.047	10.000	.05340	-.03130	.02120	-.00330	.00000	.00000	.03110
GRADIENT		.00589	-.00309	.00066	-.00030	.00000	.00000	-.00021



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(O3)/(I9)/(S3/2) Y10

(R63R72) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 409.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 21.225 SPADIA = .200
 SPAGAP = .050

RUN NO. 4239/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.07970	.01890	.05430	-.01260	.00000	.00000	.04640
1.249	-8.000	-.06060	.01370	.02700	.00040	.00000	.00000	.04390
1.249	-6.000	-.04310	.00990	.00000	.01440	.00000	.00000	.04210
1.249	-4.000	-.03220	.00760	-.02390	.02870	.00000	.00000	.04150
1.249	-2.000	-.02190	.00670	-.03960	.03920	.00000	.00000	.04080
1.249	.000	-.01290	.00490	-.03910	.04090	.00000	.00000	.04090
1.249	2.000	-.00310	.00040	-.03350	.03630	.00000	.00000	.04120
1.249	4.000	.00940	-.00660	-.02390	.03090	.00000	.00000	.04370
1.249	6.000	.02060	-.01160	-.01750	.02530	.00000	.00000	.04350
1.249	8.000	.03330	-.01760	-.00240	.01640	.00000	.00000	.04330
1.249	10.000	.04910	-.02430	.02130	.00340	.00000	.00000	.04790
	GRADIENT	.00310	-.00173	.00003	.00004	.00000	.00000	.00044

MSFC 370 (1A31F) (S3/2)/(Q3)/(T9)/(S3/2) Y10

(R83R73) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COEFIC = 409.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CP3INC = .300
 SPACER = 21.220 SPADIA = .200
 SPAGAP = .050

RUN NO. 4262/ 0 RVL = 6.16 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.897	-10.000	.01930	-.01940	-.00870	.01730	-.00330	.00000	.01430
.897	-8.000	.01730	-.01790	-.00180	.00910	-.00310	.00000	.01640
.897	-6.000	.01300	-.01680	-.00330	.00970	-.00270	.00000	.01750
.897	-4.000	.01030	-.01340	-.01090	.01440	-.00180	.00000	.01720
.897	-2.000	.00470	-.00890	-.01910	.02030	-.00090	.00000	.01800
.897	.000	-.00230	-.00360	-.02620	.02350	.00240	.00000	.01960
.897	2.000	-.01010	.00200	-.03340	.03100	.00180	.00000	.02030
.897	4.000	-.01780	.00720	-.04030	.03590	.00320	.00000	.02160
.897	6.000	-.02590	.01290	-.04450	.04190	.00470	.00000	.02330
.897	8.000	-.03310	.01910	-.05260	.04690	.00540	.00000	.02410
.897	10.000	-.04440	.02350	-.05990	.05210	.00810	.00000	.02670
GRADIENT		-.00355	.00260	-.00358	.00277	.00063	.00000	.00056

RUN NO. 4261/ 0 RVL = 6.47 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	.02000	-.01940	-.02210	.03010	-.00360	.00000	.01930
1.049	-8.000	.01340	-.01410	-.01320	.02340	-.00240	.00000	.02130
1.049	-6.000	.01150	-.01360	-.01420	.02090	-.00210	.00000	.02330
1.049	-4.000	.00850	-.01190	-.01640	.02110	-.00150	.00000	.02240
1.049	-2.000	.00230	-.00660	-.02350	.02770	-.00040	.00000	.02590
1.049	.000	-.00620	.00010	-.03600	.03600	.00110	.00000	.02900
1.049	2.000	-.01610	.00770	-.04490	.04270	.00290	.00000	.03010
1.049	4.000	-.02590	.01500	-.05260	.04560	.00470	.00000	.03100
1.049	6.000	-.03590	.02210	-.05920	.05320	.00690	.00000	.03190
1.049	8.000	-.04610	.02890	-.06670	.05860	.00940	.00000	.03330
1.049	10.000	-.05650	.03570	-.07370	.06320	.01030	.00000	.03460
GRADIENT		-.00436	.00339	-.00459	.00350	.00078	.00000	.00107



TABULATED SOURCE DATA - NSFC 570

DATE 05 NOV 74

(R83R73) (04 OCT 73)

NSFC 570 (1A31F) (S3/21/(03)/(T9)/(S3/2) Y10

REFERENCE DATA

SREF = .9720 80. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 409.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPACAP = .050

RUN NO. 4263/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	.02250	-.02220	-.02540	.03400	-.00410	.00000	.02180
1.247	-8.000	.01450	-.01540	-.01690	.02800	-.00260	.00000	.02290
1.247	-6.000	.00980	-.01180	-.01720	.02330	-.00140	.00000	.02350
1.247	-4.000	.00610	-.00870	-.02050	.02640	-.00110	.00000	.02470
1.247	-2.000	-.00130	-.00210	-.02870	.03300	.00020	.00000	.02630
1.247	.000	-.00910	.00390	-.03660	.04100	.00160	.00000	.02780
1.247	2.000	-.01690	.00960	-.04630	.04670	.00300	.00000	.02990
1.247	4.000	-.02520	.01570	-.05300	.05110	.00460	.00000	.03160
1.247	6.000	-.03390	.02200	-.05980	.05490	.00620	.00000	.03390
1.247	8.000	-.04300	.02890	-.06690	.05960	.00780	.00000	.03590
1.247	10.000	-.05350	.03630	-.07330	.06410	.00970	.00000	.03790
1.247	GRADIENT	-.06390	.00302	-.00413	.00315	.00071	.00000	.00097

MSFC 570 (IA31F) (S3/2)/(C3)/(T0)/(S3/2) 100

(R03R74) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 413.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 GRBINC = .500
SPACER = 9.000 SPADIA = .200
SPAGAP = .050

RUN NO. 4265/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.07460	.02200	.03730	-.00330	.00000	.00000	.03240
1.249	-6.000	-.05860	.01950	.00940	.01120	.00000	.00000	.03040
1.249	-6.000	-.04460	.01530	-.01530	.02490	.00000	.00000	.02960
1.249	-4.000	-.03220	.01250	-.03440	.03640	.00000	.00000	.02920
1.249	-2.000	-.02180	.01000	-.04420	.04390	.00000	.00000	.02890
1.249	.000	-.01260	.00700	-.04230	.04400	.00000	.00000	.02860
1.249	2.000	-.00010	-.00010	-.03540	.03900	.00000	.00000	.02860
1.249	4.000	.00890	-.00410	-.02980	.03430	.00000	.00000	.02860
1.249	6.000	.02140	-.01090	-.01980	.02640	.00000	.00000	.02730
1.249	8.000	.03460	-.01790	-.00400	.01610	.00000	.00000	.02560
1.249	10.000	.05000	-.02520	.01990	.00280	.00000	.00000	.03090
	GRADIENT	.00319	-.00216	.00089	-.00051	.00000	.00000	.00020

MSFC 570 (IA31F) (S3/2)/(C3)/(T11) (S3/2)

(R03R75) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 417.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 GRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4296/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-.060	.00510	-.00960	-.02670	.02310	.00000	.00000	.02770
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4297/ 0 RN/L = 5.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.795	-.110	-.00080	-.00540	-.02910	.02810	.00000	.00000	.00190
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



MSFC 570 (1A31F) (S3/2) / (C3) / (T11) (S3/2)

(R03R75) (04 OCT 73)

REFERENCE DATA

SREF =
 LREF =
 BREF =
 SCALE =

LREF = 5.3130 IN.

BREF = 5.3130 IN.

SCALE 3

59. IN XMRP = 2,5490 IN.

IN. YMRP = .0000 IN.

IN- 7MTP = .0000 IN.

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	417.000
DELTAE	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRIBINC	=	.500
SPACER	=	.000	SPADIA	=	.000
SPAGAP	=	.000			

$$\text{DELTA Z} = .140 \quad \text{RUDDER} =$$

X-SRB = 895-X
= 2,000 CRBINC = 201825

SPACER = .030 SPADIA =

SPAGAP = .000

BIN NO.	4693/ 0	RN/L = 3.77	GRADIENT INTERVAL = -5.00/	5.00
1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00
52	0.00	0.00	0.00	0.00
53	0.00	0.00	0.00	0.00
54	0.00	0.00	0.00	0.00
55	0.00	0.00	0.00	0.00
56	0.00	0.00	0.00	0.00
57	0.00	0.00	0.00	0.00
58	0.00	0.00	0.00	0.00
59	0.00	0.00	0.00	0.00
60	0.00	0.00	0.00	0.00
61	0.00	0.00	0.00	0.00
62	0.00	0.00	0.00	0.00
63	0.00	0.00	0.00	0.00
64	0.00	0.00	0.00	0.00
65	0.00	0.00	0.00	0.00
66	0.00	0.00	0.00	0.00
67	0.00	0.00	0.00	0.00
68	0.00	0.00	0.00	0.00
69	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00
71	0.00	0.00	0.00	0.00
72	0.00	0.00	0.00	0.00
73	0.00	0.00	0.00	0.00

[illegible]

- .150	- .00490	- .00320	- .02730	.00000	.00000	- .92720
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	GRADIENT	.00000	.00000	.00000	.00000
CCCCC.		.00000	.00000	.00000	.00000

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RUN NO. 4292/ 0  RM/L = 6.07  GRADIENT INTERVAL = -5.00/ 5.00

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MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.052	-.150	-.01000	.00390	-.03880	.03790	.00000	.00000	-.05310
	GRADIENT	.00000	.00500	.00000	.00200	.00000	.00000	.00000

Account	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357</
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[illegible]

RUN NO:	4288/ 0	RN/L =	6.09	GRADIENT INTERVAL =	-5.00/ 5.00
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[illegible]

- .160	- .01510	.00770	-.03760	.03950	.00000	-.09740
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GRADIENT	.00000	.00000	.00000	.00000
	.00000	.00000	.00000	.00000
	.00000	.00000	.00000	.00000

RUN NO. 4300	0	RVL = 5.95	GRADIENT INTERVAL = -5.00/	5.00
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[illegible]

-.120	-.01420	.00810	-.03600	.03910	.05000	.03600
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[illegible]

PIN NO	4303/0	PNV1	=	6.40	GRADIENT	INTERVAL	=	-3.05/	3.05
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[illegible]

-.150	-.01550	.00910	-.02460	.02790	.00000	.00000	.02390
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GRADIENT	.00000	.00000	.00000	.00000	.00000

PIN NO.	4294/ D	BN/1	4.21	GRADIENT INTERVAL =	-5.00/	5.00

[illegible]

- .090	- .01330	.00500	-.02120	.02510	.00000	.00000	.01390
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GRADIENT	.00000	.00000	.00000	.00000
MCHREX.

RUN NO. 4267, 0 BN/1 = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.030	-.01880	.01670	-.00960	.01640	.00000	.00000	.00460

	- .030	- .01880	.01670	- .00960	.01640	.00000	.00000	.00000	, 05460
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	.00000	.00000	.00000	.00000	.00000
GRADIENT	.00000	.00000	.00000	.00000	.00000

NSFC 570 (1A31F) (S3/2)/(03)/(112) (S3/2)

(R03R76) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
.93130 IN. YMRP = .0000 IN.
.93130 IN. ZMRP = .0000 IN.
.0040

SETA = .000 CONFIC = 419.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4299/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH .596
ALPHA -.070 CLM -.00940 CYN .02320 CAB
GRADIENT .00000 .00000 .00000 .02790
 .00000 .00000

RUN NO. 4298/ 0 RN/L = 5.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH .804
ALPHA -.110 CLM -.00470 CYN .02980 CAB
GRADIENT .00000 .00000 .00000 -.00100
 .00000 .00000

RUN NO. 4295/ 0 RN/L = 5.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH .901
ALPHA -.140 CLM -.00350 CYN .02830 CAB
GRADIENT .00000 .00000 .00000 -.02510
 .00000 .00000

RUN NO. 4291/ 0 RN/L = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.054
ALPHA -.150 CLM .00380 CYN .03750 CAB
GRADIENT .00000 .00000 .00000 -.05520
 .00000 .00000

RUN NO. 4290/ 0 RN/L = 6.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.255
ALPHA -.180 CLM .00710 CYN .03940 CAB
GRADIENT .00000 .00000 .00000 -.08630
 .00000 .00000

RUN NO. 4301/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.482
ALPHA -.120 CLM .00830 CYN .03770 CAB
GRADIENT .00000 .00000 .00000 .03500
 .00000 .00000

RUN NO. 4302/ 0 RN/L = 5.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.966
ALPHA -.140 CLM .01030 CYN .02900 CAB
GRADIENT .00000 .00000 .00000 .02350
 .00000 .00000



DATE 09 NOV 74

STABULATED SOURCE DATA - MSFC 370

(R03R76) (04 OCT 73)

MSFC 570(1A31F) (S3/2)/(O3)/(T12)(S3/2)

REFERENCE DATA

YMRP =	2,3490 IN.
ZMRP =	,0000 IN.
YMRP =	3,3130 IN.
ZMRP =	,0040

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	418.000
DELTA Z	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRBINC	=	.500
SPACER	=	.000	SPADIA	=	.000
SPAGAP	=	.000			

	TIME	T	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	JJ	JK	JL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	<th>TW</th> <th>TX</th> <th>TY</th> <th>TZ</th> <th>UA</th> <th>UB</th> <th>UC</th> <th>UD</th> <th>UE</th> <th>UF</th> <th>UG</th> <th>UH</th> <th>UI</th> <th>UJ</th> <th>UK</th> <th>UL</th> <th>UM</th> <th>UN</th> <th>UO</th> <th>UP</th> <th>UQ</th> <th>UR</th> <th>US</th> <th>UT</th> <th>UU</th> <th>UV</th> <th>UW</th> <th>UX</th> <th>UY</th> <th>UZ</th> <th>VA</th> <th>VB</th> <th>VC</th> <th>VD</th> <th>VE</th> <th>VF</th> <th>VG</th> <th>VH</th> <th>VI</th> <th>VJ</th>	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ
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	ALPHA	CN	CLM	CY	CYN	CLC
MACH	- .070	-.01030	.00240	-.02170	.02430	.00000
GRADIENT	2.990	.00000	.00000	.00000	.00000	.00000
						.01330
						.00000
						.00000

COEFFICIENT INTERVAL = -5.00/ 5.00

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
WACH								
4.960	-.030	-.01880	.01670	-.00960	.01640	.00000	.00000	.00460
GRADIENT	.62667		-.55667	.32000	-.54667	.00000	.00000	-.13333

(R93R77) (04 OCT 73)

REC 570 (TA31F) (S3/2)/(G3)/(T7) (S3/2)

REFERENCE DATA

SRF =	.970 SQ. IN	XMP =	2.5490 IN.
REF =	3.3130 IN.	YMP =	.0000 IN.
BRE =	3.3130 IN.	ZMP =	.0000 IN.
SCALE =	.0040		

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	419.000
DELTA Z	=	.140	RUDDER	=	.000
X-SEB	=	.000	CRBINC	=	.500
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.000			

GRADIENT INTERVAL = -5.00/ 5.00

	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH	.00320	-.01010	-.03110	.02960	.00000	.00000	.03730
.598	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

Iteration	Value	Gradient	Interval
1	5.00	-5.00	5.00
2	4.66	-4.66	4.66
3	4.44	-4.44	4.44
4	4.29	-4.29	4.29
5	4.17	-4.17	4.17
6	4.08	-4.08	4.08
7	4.02	-4.02	4.02
8	3.98	-3.98	3.98
9	3.95	-3.95	3.95
10	3.93	-3.93	3.93
11	3.92	-3.92	3.92
12	3.91	-3.91	3.91
13	3.91	-3.91	3.91
14	3.91	-3.91	3.91
15	3.91	-3.91	3.91
16	3.91	-3.91	3.91
17	3.91	-3.91	3.91
18	3.91	-3.91	3.91
19	3.91	-3.91	3.91
20	3.91	-3.91	3.91
21	3.91	-3.91	3.91
22	3.91	-3.91	3.91
23	3.91	-3.91	3.91
24	3.91	-3.91	3.91
25	3.91	-3.91	3.91
26	3.91	-3.91	3.91
27	3.91	-3.91	3.91
28	3.91	-3.91	3.91
29	3.91	-3.91	3.91
30	3.91	-3.91	3.91
31	3.91	-3.91	3.91
32	3.91	-3.91	3.91
33	3.91	-3.91	3.91
34	3.91	-3.91	3.91
35	3.91	-3.91	3.91
36	3.91	-3.91	3.91
37	3.91	-3.91	3.91
38	3.91	-3.91	3.91
39	3.91	-3.91	3.91
40	3.91	-3.91	3.91
41	3.91	-3.91	3.91
42	3.91	-3.91	3.91
43	3.91	-3.91	3.91
44	3.91	-3.91	3.91
45	3.91	-3.91	3.91
46	3.91	-3.91	3.91
47	3.91	-3.91	3.91
48	3.91	-3.91	3.91
49	3.91	-3.91	3.91
50	3.91	-3.91	3.91
51	3.91	-3.91	3.91
52	3.91	-3.91	3.91
53	3.91	-3.91	3.91
54	3.91	-3.91	3.91
55	3.91	-3.91	3.91
56	3.91	-3.91	3.91
57	3.91	-3.91	3.91
58	3.91	-3.91	3.91
59	3.91	-3.91	3.91
60	3.91	-3.91	3.91
61	3.91	-3.91	3.91
62	3.91	-3.91	3.91
63	3.91	-3.91	3.91
64	3.91	-3.91	3.91
65	3.91	-3.91	3.91
66	3.91	-3.91	3.91
67	3.91	-3.91	3.91
68	3.91	-3.91	3.91
69	3.91	-3.91	3.91
70	3.91	-3.91	3.91
71	3.91	-3.91	3.91
72	3.91	-3.91	3.91
73	3.91	-3.91	3.91
74	3.91	-3.91	3.91
75	3.91	-3.91	3.91
76	3.91	-3.91	3.91
77	3.91	-3.91	3.91
78	3.91	-3.91	3.91
79	3.91	-3.91	3.91
80	3.91	-3.91	3.91
81	3.91	-3.91	3.91
82	3.91	-3.91	3.91
83	3.91	-3.91	3.91
84	3.91	-3.91	3.91
85	3.91	-3.91	3.91
86	3.91	-3.91	3.91
87	3.91	-3.91	3.91
88	3.91	-3.91	3.91
89	3.91	-3.91	3.91
90	3.91	-3.91	3.91

	CY	CYN	CBL	CAF	CAB
MACH	-0.0360	.02980	.00000	.00000	.03550
- 120	-0.03270				.00000
200					.00000

GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 4370/ 0 RN/L = 3.93									
GRADIENT									
ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB		
.898	-.160	-.00360	-.00390	.02970	.00000	.00000	.03750		
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.90000		

MSFC 370 (1A31F) (S3/2)/(Q3)/(T7) (S3/2)

(R93R77) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 IN. XMRP = 2.5490 IN.
9.3130 IN. YMRP = .0000 IN.
9.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 COFFIC = 419.000
DELTAZ = .140 RUDDER = .000
X-SEB = .000 CRBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4369/ 0 RIVL = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.047	-.150	-.01040	.00290	-.03940	.03920	.00000	.00000	.03990
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4368/ 0 RIVL = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.250	-.150	-.01440	.00610	-.04010	.04190	.00000	.00000	.04360
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4367/ 0 RIVL = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.459	-.120	-.01610	.00920	-.03700	.04000	.00000	.00000	.03960
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4362/ 0 RIVL = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.937	-.140	-.01600	.00960	-.02530	.02930	.00000	.00000	.02900
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4360/ 0 RIVL = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-.090	-.01560	.00910	-.02270	.02300	.00000	.00000	.01560
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4361/ 0 RIVL = 5.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
4.960	-.020	-.01840	.01600	-.01280	.01800	.00000	.00000	-.00340
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



MSFC 570(1A31F) (S3/2)/(C3)/(T13) (S3/2)

(R83R78) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

RUN NO. 4358/ 0 RN/L = 4.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH
2.990

ALPHA
- .080
GRADIENT

CN
-.01490
.00000

CLM
.00690
.00000

CY
-.02160
.00000

CYN
.02440
.00000

CBL
.00000
.00000

CAF
.00000
.00000

CAB
.01990
.00000

RUN NO. 4359/ 0 RN/L = 5.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH
4.980

ALPHA
- .020
GRADIENT

CN
-.01440
.00000

CLM
.01180
.00000

CY
-.01440
.00000

CYN
.01750
.00000

CBL
.00000
.00000

CAF
.00000
.00000

CAB
.00030
.00000

PARAMETRIC DATA

BETA = .000 CONFIG = 420.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

RUN NO. 4238/ 0 RN/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH
.899

ALPHA
-10.000
-8.000
-6.000
-4.000
-2.000
.000
2.000
4.000
6.000
8.000
10.000
GRADIENT

CN
-.06370
-.03290
-.04070
-.02770
-.01610
-.00570
.00560
.01650
.02510
.03540
.04600
.05550

CLM
.01830
.01690
.01320
.00730
.00200
-.00240
-.00930
-.01430
-.01710
-.02090
-.02490
-.02867

CY
.04580
.02450
.00340
-.01330
-.02320
-.03050
-.02910
-.02320
-.01340
.00140
.02250
-.00119

CYN
-.01110
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CAB
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.03240
.03460
.03590
.00001

PARAMETRIC DATA

BETA = .000 CONFIG = 421.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

MSFC 570(1A31F) (S3/2)/(C3)/(T11) (S3/2)

(R83R79) (04 OCT 73)



MSFC 570 (1A31F) (S3/2)/(O3)/(T11)/(S3/2) (R03R79) (04 OCT 73)

REFERENCE DATA PARAMETRIC DATA

SREF = .9750 SO. IN XMRP = 2.5490 IN. BETA = .000 COAFLG = 421.000

LREF = 5.3130 IN. YMRP = .0000 IN. DELTAZ = .140 RUDDER = .000

BREF = 5.3130 IN. ZMRP = .0000 IN. X-SRB = .000 CRBINC = .900

SCALE = .0040 SPACER = .000 SPADIA = .000

SPACAP = .000

RUN NO. 4239/ 0 RN/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.08090	.01960	.0160	-.01190	.00000	.00000	.04530
1.249	-6.000	-.06200	.01490	.02270	.00200	.00000	.00000	.04390
1.249	-6.000	-.04630	.01150	-.00550	.01710	.00000	.00000	.04290
1.249	-4.000	-.03410	.01030	-.02510	.03120	.00000	.00000	.04310
1.249	-2.000	-.02450	.00970	-.04120	.04120	.00000	.00000	.04300
1.249	.000	-.01600	.00820	-.04160	.04250	.00000	.00000	.04270
1.249	2.000	-.00330	.00330	-.03540	.03750	.00000	.00000	.04250
1.249	4.000	.00680	-.00340	-.02820	.03220	.00000	.00000	.04220
1.249	6.000	.01640	-.00890	-.01900	.02660	.00000	.00000	.04360
1.249	8.000	.02920	-.01310	-.00380	.01790	.00000	.00000	.04690
1.249	10.000	.04570	-.02110	.01690	.00590	.00000	.00000	.04620
GRADIENT		.00503	-.00169	.00028	-.00009	.00000	.00000	.00035

RUN NO. 4232/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.000	-10.000	-.10110	.05420	.02850	-.01030	.00000	.00000	.00940
4.000	-6.000	-.08410	.04600	.02340	-.00970	.00000	.00000	.00940
4.000	-6.000	-.06600	.03640	.01420	-.00320	.00000	.00000	.00930
4.000	-4.000	-.04760	.02610	.00210	.00530	.00000	.00000	.00920
4.000	-2.000	-.03260	.01930	-.01060	.01600	.00000	.00000	.00890
4.000	.000	-.02130	.01610	-.01930	.02360	.00000	.00000	.00890
4.000	2.000	-.00910	.01010	-.01930	.02390	.00000	.00000	.00890
4.000	4.000	.00310	.00460	-.01000	.01800	.00000	.00000	.00830
4.000	6.000	.01950	-.00330	-.00140	.01110	.00000	.00000	.00800
4.000	8.000	.03640	-.01260	.00680	.00490	.00000	.00000	.00780
4.000	10.000	.05560	-.02230	.01670	-.00090	.00000	.00000	.00750
GRADIENT		.00629	-.00261	-.00159	.00164	.00000	.00000	-.00010

MSFC 570 (1A31F) (S3/2)/(O3)/(T11)/(S3/2)

(R03R00) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
SREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 421.000
DELTA Z = .140 RUDDER = .000
X-SF3 = .000 CRBINC = .300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4236/ 0 RM/L = 4.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.604	-.040	.00260	-.00860	-.03280	.02920	.00000	.00000	.03040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4237/ 0 RM/L = 5.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-.080	-.00190	-.00490	-.03190	.03020	.00000	.00000	.02930
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4240/ 0 RM/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.032	-.110	-.01360	.00690	-.03990	.03930	.00000	.00000	.02590
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4247/ 0 RM/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-.110	-.01680	.00990	-.03890	.04060	.00000	.00000	.03610
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4249/ 0 RM/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.961	-.110	-.01630	.00930	-.02600	.02820	.00000	.00000	.02560
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4251/ 0 RM/L = 4.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.070	-.01670	.00870	-.02450	.02740	.00000	.00000	.01530
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4255/ 0 RM/L = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.01840	.01750	-.01230	.01930	.00000	.00000	.00520
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSFC 570

(R83R81) (04 OCT 75)

MSFC 570 (1A31F) (33/2)/(03)/(112)/(83/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 422.000
DELTAZ = .140 RUDDER = .500
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4243/ 0 RN/L = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.902	-10.000	-.06000	.08160	.04960	-.01000	.00000	.00000	.03610
.902	-8.000	-.03540	.01900	.02310	.00040	.00000	.00000	.03370
.902	-6.000	-.04150	.01430	.00270	.01060	.00000	.00000	.03150
.902	-4.000	-.02850	.00820	-.01370	.01960	.00000	.00000	.03060
.902	-2.000	-.01650	.00240	-.02540	.02700	.00000	.00000	.02960
.902	.000	-.00610	-.00210	-.03050	.02970	.00000	.00000	.02970
.902	2.000	.00330	-.00820	-.02830	.02640	.00000	.00000	.02950
.902	4.000	.01660	-.01450	-.02290	.02410	.00000	.00000	.03150
.902	6.000	.02370	-.01770	-.01330	.01750	.00000	.00000	.03120
.902	8.000	.03610	-.02150	.00130	.00800	.00000	.00000	.03490
.902	10.000	.04660	-.02540	.02180	-.00420	.00000	.00000	.03530
GRADIENT		.00360	-.00280	-.00107	.00040	.00000	.00000	.00000

RUN NO. 4242/ 0 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
1.248	-10.000	-.06100	.01990	.03030	-.01130	.00000	.00000	.04540
1.248	-8.000	-.06240	.01560	.02260	.00190	.00000	.00000	.04350
1.248	-6.000	-.04680	.01230	-.00350	.01690	.00000	.00000	.04320
1.248	-4.000	-.03420	.01040	-.02770	.03080	.00000	.00000	.04330
1.248	-2.000	-.02370	.00930	-.04080	.04080	.00000	.00000	.04270
1.248	.000	-.01560	.00800	-.04080	.04210	.00000	.00000	.04210
1.248	2.000	-.00340	.00320	-.03490	.03730	.00000	.00000	.04250
1.248	4.000	.00680	-.00300	-.02830	.03220	.00000	.00000	.04730
1.248	6.000	.01770	-.00810	-.01990	.02620	.00000	.00000	.04780
1.248	8.000	.03000	-.01310	-.00260	.01670	.00000	.00000	.04630
1.248	10.000	.04600	-.02040	.02120	.00360	.00000	.00000	.04630
GRADIENT		.00301	-.00164	.00024	-.00004	.00000	.00000	.00000

MSFC 570 (1A31F) (S3/2) / (C3) / (T12) / (S3/2)

(R03R02) (04 OCT 73)

REFERENCE DATA

. AREP #
 LAREP #
 BREP #
 SCALE #

5.3130 IN.

5.3130 IN.

.0040

XMRP = 2.5490 IN.

$$YMRP = .0000 \text{ IN.}$$

ZMRP = .0000 IN.

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	422.000
DELTAZ	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRBTNC	=	.500
SPACER	=	.000	SPADIA	=	.000
SPAGAP	=	.000			

DELTA Z = .140 RUDDER =

X-SRB = 825-X .000 CRBINC = .500

SPACER = .000 SPADIA = .000

SPAGAP = .000

RUN NO. 4241/ 0 RM/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH		CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	- .100	-.01270	.00600	-.03920	.03830	.00000	.00000	.00530
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	- .100	.00600	-.03920	.03830	.00000	.02330
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4246/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

	.00000	.00000	.00000	.00000	.00000
GRADIENT	.00000	.00000	.00000	.00000	.00000

RUN NO. 4249/ 0 R/V/L = 6.89 GRADIENT INTERVAL = -5.02/ 5.00

[illegible]

GRADIENT	.00000	.00000	.00000	.00000	.00000
	.00000	.00000	.00000	.00000	.00000
	.00000	.00000	.00000	.00000	.00000

RUN NO. 4250/0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH		CN	CLW	CY	CYN	CBL	CAF	CAS
2.990	- .060	- .01410	.00610	-.02310	.02680	.00000	.00000	.01475
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

[illegible]

RUN NO: 4254/ 0 RM/L = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

[illegible][illegible]

MSFC 570 (1A31F) (S3/2)/(03)/(T7)/(S3/2)

(R43R93) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

MACH .9780 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 CONFIC = 423.000
DELTAZ = .140 RUDDER = .000
X-SRS = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 4336/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH .798
ALPHA CN CLM CY CYN CBL CAF CAB
-.040 .00420 -.00930 -.03140 .02920 .00000 .00000 .03650
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 4339/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH .798
ALPHA CN CLM CY CYN CBL CAF CAB
-.070 .00000 -.00700 -.03010 .02960 .00000 .00000 .03350
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 4340/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH .900
ALPHA CN CLM CY CYN CBL CAF CAB
-.100 -.00260 -.00580 -.03040 .00000 .00000 .00000 .03480
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 4342/ 0 RN/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.046
ALPHA CN CLM CY CYN CBL CAF CAB
-.090 -.00740 .00110 -.03770 .00000 .00000 .00000 .02930
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 4341/ 0 RN/L = 6.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.245
ALPHA CN CLM CY CYN CBL CAF CAB
-.110 -.01180 .00510 -.03990 .00000 .00000 .00000 .04530
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 4349/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.456
ALPHA CN CLM CY CYN CBL CAF CAB
-.090 -.01370 .00790 -.03770 .04080 .00000 .00000 .03940
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 4350/ 0 RN/L = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.947
ALPHA CN CLM CY CYN CBL CAF CAB
-.110 -.01340 .00690 -.02570 .02680 .00000 .00000 .02640
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

MSFC 570(1A51F) (S3/2)/(O3)/(T7)/(S3/2)

(R03R03) (04 OCT 73)

REFERENCE DATA

AREA =	.978 SQ. IN	XMRP =	2.549 IN.
LRP =	5.3130 IN.	YMRP =	.0000 IN.
BREF =	5.3130 IN.	ZMRP =	.0000 IN.
SCALE =	.0040		

PARAMETRIC DATA

BETA	=	.000	COAFIG	=	423.000
DELTAZ	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRBINC	=	.500
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.990			

RUN NO. 4354/ D RVL = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 4355/ 0 RN/L = 5.22 GRADIENT INTERVAL = -5.09/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.01370	.01480	-.01270	.01740	.00000	.00000	.00010
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

MSFC 570 (IA51F) (S3/2) / (Q3) / (T13) / (S3/2)

(R93R94) (04 OCT 73)

REFERENCE DATA

SREF =	.9720 SQ. IN	XMRP =	2.5490 IN.
LREF =	5.3130 IN.	YMRP =	.0000 IN.
BREF =	5.3130 IN.	ZMRP =	.0000 IN.
SCALE =	.0040		

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	424.000
DELTAZ	=	.140	RUDDER	=	.000
X-SPD	=	.000	CRBINC	=	.000
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.000			

RUN NO. 4373/ 0 RN/L = 4.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH		CN	CLM	CY	CYN	CBL	CAF	CAB
.600	ALPHA	.00190	-.00870	-.03050	.02780	.00000	.00000	.03450
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4374/ 0 RN/L = 5.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH		CN	CLM	CY	CYN	CBL	CAF	CAB
.602	- .080	- .00240	- .00360	- .02930	.02660	.00000	.00000	.03250
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4375/ 0	RN/L = 7.59	GRADIENT INTERVAL = -5.00/ 5.00
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[illegible]

MSFC 570 (1A31F) (S3/2)/(03)/(T13)/(S3/2)

(R83R84) (04 OCT 75)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
3.3130 IN. YMRP = .0000 IN.
3.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 424.000
DELTA Z = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 4376/ 0 RIVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.046	-.100	-.01030	.00340	-.03620	.03560	.00000	.00000	.02370
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4377/ 0 RIVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.246	-.110	-.01420	.00600	-.03930	.04120	.00000	.00000	.04460
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4366/ 0 RIVL = 6.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.459	-.110	-.01600	.00930	-.03640	.03910	.00000	.00000	.03240
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4363/ 0 RIVL = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.959	-.110	-.01570	.00920	-.02420	.02700	.00000	.00000	.02750
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4356/ 0 RIVL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-.060	-.01520	.00850	-.02200	.02450	.00000	.00000	.01490
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 4357/ 0 RIVL = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
4.960	-.030	-.01350	.00350	-.01480	.01800	.00000	.00000	-.00040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (IAS1F) (S3/2)/(Q3)/(T9)/(S3/2)

(R03S01) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN. XMRP = 2.9490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRGINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3001/ 0 RN/L = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
.598	-10.000	-.04920	.00830	-.02340	.00680	.00000	.00000	.03660
.598	-8.000	-.03740	.00540	-.00060	-.00590	.00000	.00000	.03390
.598	-6.000	-.02240	-.00130	.01810	-.01720	.00000	.00000	.03120
.598	-5.000	-.01510	-.00490	.02510	-.02190	.00000	.00000	.03040
.598	-4.000	-.00900	-.00720	.02960	-.02550	.00000	.00000	.03030
.598	-2.000	.00040	-.01070	.03290	-.02940	.00000	.00000	.02990
.598	.000	.00780	-.01290	.03010	-.02920	.00000	.00000	.02990
.598	2.000	.01500	-.01590	.02580	-.02510	.00000	.00000	.03330
.598	4.000	.02190	-.01620	.02180	-.02090	.00000	.00000	.03490
.598	5.000	.02340	-.01900	.01870	-.01770	.00000	.00000	.03460
.598	6.000	.02860	-.01930	.01440	-.01340	.00000	.00000	.03430
.598	8.000	.03660	-.02040	-.00030	-.00170	.00000	.00000	.03460
.598	10.000	.04610	-.02230	-.02400	.01400	.00000	.00000	.03670
GRADIENT		.00395	-.00139	-.00086	.00053	.00000	.00000	.00051

RUN NO. 3002/ 0 RN/L = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
.803	-10.000	-.04990	.00680	-.04350	.00990	.00000	.00000	.03230
.803	-8.000	-.03950	.00530	-.01810	-.00220	.00000	.00000	.03120
.803	-6.000	-.02780	.00190	.00350	-.01360	.00000	.00000	.03040
.803	-5.000	-.02170	-.00030	.01220	-.01820	.00000	.00000	.02990
.803	-4.000	-.01560	-.00290	.01900	-.02210	.00000	.00000	.02990
.803	-2.000	-.00370	-.00640	.02700	-.02720	.00000	.00000	.02680
.803	.000	.00470	-.01140	.02800	-.02770	.00000	.00000	.02750
.803	2.000	.01420	-.01590	.02470	-.02450	.00000	.00000	.02920
.803	4.000	.02270	-.01920	.01970	-.01920	.00000	.00000	.03050
.803	5.000	.02630	-.02010	.01450	-.01590	.00000	.00000	.03120
.803	6.000	.03020	-.02110	.00960	-.01210	.00000	.00000	.03210
.803	8.000	.03900	-.02330	-.00520	-.00190	.00000	.00000	.03390
.803	10.000	.04930	-.02590	-.02700	.01160	.00000	.00000	.03540
GRADIENT		.00477	-.00199	.00006	.00032	.00000	.00000	.00019

MSFC 570 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R43501) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3003/ 0 RN/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.03220	.00670	-.04900	.00920	.00000	.00000	.00000
.899	-8.000	-.04000	.00510	-.02900	-.00090	.00000	.00000	.02750
.899	-6.000	-.02840	.00210	-.00390	-.01110	.00000	.00000	.02620
.899	-5.000	-.02270	.00000	.00470	-.01560	.00000	.00000	.02610
.899	-4.000	-.01690	-.00270	.01250	-.01960	.00000	.00000	.02690
.899	-2.000	-.00650	-.00690	.02350	-.02370	.00000	.00000	.02620
.899	.000	.00250	-.01030	.02710	-.02740	.00000	.00000	.02620
.899	2.000	.01370	-.01640	.02500	-.02570	.00000	.00000	.02720
.899	4.000	.02410	-.02060	.01770	-.01970	.00000	.00000	.02840
.899	5.000	.02860	-.02230	.01230	-.01550	.00000	.00000	.02940
.899	6.000	.03310	-.02400	.00680	-.01160	.00000	.00000	.03100
.899	8.000	.04220	-.02700	-.00980	-.00200	.00000	.00000	.03450
.899	10.000	.05130	-.02900	-.03030	.01020	.00000	.00000	.03920
.899	GRADIENT	.00512	-.00225	.00069	.00000	.00000	.00000	.00029

RUN NO. 3004/ 0 RN/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.06150	.01020	-.04150	.00740	.00000	.00000	.01990
1.049	-8.000	-.04880	.00960	-.01620	-.00390	.00000	.00000	.01910
1.049	-6.000	-.03690	.00630	.00780	-.01570	.00000	.00000	.01620
1.049	-5.000	-.03110	.00700	.01730	-.02090	.00000	.00000	.01530
1.049	-4.000	-.02540	.00530	.02440	-.02550	.00000	.00000	.01450
1.049	-2.000	-.01360	.00180	.03200	-.03130	.00000	.00000	.01280
1.049	.000	-.00360	-.00270	.03140	-.03170	.00000	.00000	.01290
1.049	2.000	.00740	-.00890	.02550	-.02760	.00000	.00000	.01320
1.049	4.000	.01830	-.01460	.01970	-.02210	.00000	.00000	.01420
1.049	5.000	.02370	-.01710	.01450	-.01990	.00000	.00000	.01490
1.049	6.000	.02950	-.02000	.00910	-.01510	.00000	.00000	.01530
1.049	8.000	.04200	-.02590	-.00670	-.00480	.00000	.00000	.01710
1.049	10.000	.05550	-.03180	-.02970	.00910	.00000	.00000	.02070
1.049	GRADIENT	.00545	-.00245	-.00055	.00034	.00000	.00000	.00000

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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2)/(03)/(19)/(S3/2)

(R03S01) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3055/ 0 RV/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-8.000	-.05010	.00390	-.02100	-.00450	.00000	.00000	.03370
1.248	-10.000	-.06790	.00730	-.05020	.00920	.00000	.00000	.03490
1.248	-6.000	-.03510	.00100	.00470	-.01900	.00000	.00000	.03220
1.248	-5.000	-.02880	.00030	.01590	-.02440	.00000	.00000	.03140
1.248	-4.000	-.02340	.00030	.02570	-.03040	.00000	.00000	.03070
1.248	-2.000	-.01450	.00060	.03570	-.03760	.00000	.00000	.02790
1.248	.000	-.00680	.00010	.03490	-.03760	.00000	.00000	.02770
1.248	2.000	.00330	-.00460	.02890	-.03290	.00000	.00000	.02470
1.248	4.000	.01330	-.00890	.02200	-.02810	.00000	.00000	.02950
1.248	5.000	.01810	-.01060	.01750	-.02530	.00000	.00000	.02970
1.248	6.000	.02300	-.01200	.01170	-.02150	.00000	.00000	.02930
1.248	8.000	.03630	-.01750	-.00620	-.01090	.00000	.00000	.02950
1.248	10.000	.05490	-.02680	-.03350	.00370	.00000	.00000	.03130
1.248	GRADIENT	.00463	-.00113	-.00023	.00016	.00000	.00000	-.00013

RUN NO. 3036/ 0 RV/L = 6.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.460	-10.000	-.07950	.01620	-.05360	.01270	.00000	.00000	.02630
1.460	-8.000	-.05480	.00720	-.02420	-.00410	.00000	.00000	.02520
1.460	-6.000	-.03890	.00390	.00420	-.02010	.00000	.00000	.02440
1.460	-5.000	-.03240	.00350	.01600	-.02680	.00000	.00000	.02460
1.460	-4.000	-.02660	.00350	.02570	-.03240	.00000	.00000	.02530
1.460	-2.000	-.01720	.00390	.03710	-.04030	.00000	.00000	.02410
1.460	.000	-.00890	.00290	.03650	-.04060	.00000	.00000	.02440
1.460	2.000	.00330	-.00010	.03080	-.03690	.00000	.00000	.02570
1.460	4.000	.00900	-.00290	.02390	-.03180	.00000	.00000	.02620
1.460	5.000	.01350	-.00410	.01930	-.02890	.00000	.00000	.02630
1.460	6.000	.01860	-.00560	.01410	-.02540	.00000	.00000	.02580
1.460	8.000	.03020	-.00890	-.00300	-.01600	.00000	.00000	.02620
1.460	10.000	.04370	-.01230	-.03000	-.00270	.00000	.00000	.02910
1.460	GRADIENT	.00452	-.00080	-.00004	-.00001	.00000	.00000	.00017

MSFC 570 (1A31F) (S3/2)/(03)/(T9)/(S3/2)

(R03501) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBITC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3037/ 0 RV/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.959	-10.000	-10.430	.03390	-.05930	.02610	.00000	.00000	.02340
1.959	-8.000	-.07160	.01840	-.04150	.01760	.00000	.00000	.01990
1.959	-6.000	-.04730	.00910	-.01690	.00070	.00000	.00000	.01900
1.959	-5.000	-.03840	.00700	-.00360	-.00510	.00000	.00000	.01860
1.959	-4.000	-.03140	.00620	.00920	-.01670	.00000	.00000	.01860
1.959	-2.000	-.01960	.00340	.02340	-.02940	.00000	.00000	.01790
1.959	.000	-.01090	.00320	.02900	-.03420	.00000	.00000	.01760
1.959	2.000	-.00160	.00290	.02650	-.03330	.00000	.00000	.01820
1.959	4.000	.00720	.00120	.02350	-.02490	.00000	.00000	.01740
1.959	5.000	.01240	.00040	.01450	-.02320	.00000	.00000	.01710
1.959	6.000	.01930	-.00180	.00730	-.02300	.00000	.00000	.01800
1.959	8.000	.03700	-.03760	-.01330	-.00700	.00000	.00000	.02050
1.959	10.000	.05970	-.01450	-.04280	.01060	.00000	.00000	.02310
	GRADIENT	.00494	-.00065	.00151	-.00154	.00000	.00000	-.00014

RUN NO. 3060/ 0 RV/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.09430	.03860	-.03740	.01690	.00000	.00000	.01300
2.990	-8.000	-.07620	.02920	-.03250	.01610	.00000	.00000	.01290
2.990	-6.000	-.05350	.01900	-.02110	.00910	.00000	.00000	.01000
2.990	-5.000	-.04330	.01290	-.01340	.00360	.00000	.00000	.00990
2.990	-4.000	-.03420	.00930	-.00390	-.00360	.00000	.00000	.00970
2.990	-2.000	-.01960	.00330	.01370	-.01910	.00000	.00000	.00960
2.990	.000	-.00970	.00250	.02270	-.02630	.00000	.00000	.00730
2.990	2.000	.00060	-.00060	.02310	-.02820	.00000	.00000	.00950
2.990	4.000	.01080	-.00350	.01720	-.02420	.00000	.00000	.00950
2.990	5.000	.01620	-.00490	.01200	-.02030	.00000	.00000	.00950
2.990	6.000	.02230	-.00650	.00440	-.01460	.00000	.00000	.00960
2.990	8.000	.03770	-.01240	-.00390	-.00440	.00000	.00000	.01010
2.990	10.000	.05750	-.02200	-.01900	.00340	.00000	.00000	.01090
	GRADIENT	.00575	-.00161	.00256	-.00247	.00000	.00000	.00007



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(03)/(19)/(S3/2)

(R03S01) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTNC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3039/ 0 RNVL = 6.39 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09510	.04440	-.02920	.01100	.00000	.00000	.01110
3.480	-8.000	-.07830	.03690	-.02430	.01000	.00000	.00000	.01080
3.480	-6.000	-.05910	.02710	-.01660	.00580	.00000	.00000	.00910
3.480	-5.000	-.04940	.02190	-.01080	.00190	.00000	.00000	.00840
3.480	-4.000	-.03990	.01690	-.00330	-.00360	.00000	.00000	.00790
3.480	-2.000	-.02340	.01100	.01200	-.01610	.00000	.00000	.00750
3.480	.000	-.01470	.00670	.02080	-.02410	.00000	.00000	.00800
3.480	2.000	-.00390	.00450	.02080	-.02370	.00000	.00000	.00930
3.480	4.000	.00670	.00080	.01400	-.02130	.00000	.00000	.00840
3.480	5.000	.01240	-.00390	.00910	-.01770	.00000	.00000	.00760
3.480	6.000	.01880	-.00330	.00320	-.01280	.00000	.00000	.00770
3.480	8.000	.03540	-.01090	-.00730	-.00440	.00000	.00000	.00790
3.480	10.000	.05720	-.02200	-.01590	.00180	.00000	.00000	.00780
GRADIENT		.00596	-.00213	.00207	-.00209	.00000	.00000	.00002

RUN NO. 3056/ 0 RNVL = 4.99 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.06880	.03540	-.01680	.00280	.00000	.00000	.00390
4.960	-8.000	-.05650	.02980	-.01350	.00250	.00000	.00000	.00310
4.960	-6.000	-.04200	.02230	-.00760	-.00060	.00000	.00000	.00330
4.960	-5.000	-.03510	.01870	-.00380	-.00340	.00000	.00000	.00340
4.960	-4.000	-.02930	.01570	.00100	-.00750	.00000	.00000	.00360
4.960	-2.000	-.01990	.01220	.00860	-.01400	.00000	.00000	.00380
4.960	.000	-.01090	.00900	.01200	-.01730	.00000	.00000	.00410
4.960	2.000	.00000	.00380	.01020	-.01640	.00000	.00000	.00400
4.960	4.000	.01120	-.00160	.00520	-.01180	.00000	.00000	.00370
4.960	5.000	.01700	-.00430	.00200	-.00900	.00000	.00000	.00360
4.960	6.000	.02310	-.00720	-.00160	-.00620	.00000	.00000	.00340
4.960	8.000	.03640	-.01350	-.01070	-.00080	.00000	.00000	.00300
4.960	10.000	.05100	-.02050	-.02180	.00440	.00000	.00000	.00240
GRADIENT		.00514	-.00223	.00054	-.00056	.00000	.00000	.00002

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TABULATED SOURCE DATA - WSFC 570

FUEL 570

(R05502) (21 SEP 73)

WSFC 570 (1A31F) (S3/2) (C3) (19) (S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLG = 300.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 JEBINC = .000
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 3020/ 0 RIVL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.03110	.00950	-.02620	.00960	.00000	.00000	.03670
.599	-8.000	-.03960	.00690	-.00470	-.00270	.00000	.00000	.03390
.599	-6.000	-.02510	.00030	.01390	-.01450	.00000	.00000	.03090
.599	-5.000	-.01780	-.00300	.02110	-.01940	.00000	.00000	.02990
.599	-4.000	-.01150	-.00370	.02670	-.02340	.00000	.00000	.02990
.599	-2.000	-.00180	-.00910	.03240	-.02950	.00000	.00000	.02990
.599	.000	.00570	-.01140	.02950	-.02750	.00000	.00000	.02700
.599	2.000	.01340	-.01470	.02510	-.02450	.00000	.00000	.02820
.599	4.000	.02030	-.01670	.02070	-.02020	.00000	.00000	.02910
.599	5.000	.02350	-.01710	.01740	-.01690	.00000	.00000	.02910
.599	6.000	.02680	-.01750	.01350	-.01290	.00000	.00000	.02970
.599	8.000	.03430	-.01940	.00000	-.00230	.00000	.00000	.03090
.599	10.000	.04310	-.01920	-.02220	.01190	.00000	.00000	.03220
GRADIENT		.00405	-.00140	-.00063	.00037	.00000	.00000	-.00009

RUN NO. 3019/ 0 RIVL = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.798	-10.000	-.03090	.00860	-.04360	.01170	.00000	.00000	.02940
.798	-8.000	-.04050	.00720	-.01780	-.00120	.00000	.00000	.02700
.798	-6.000	-.03030	.00450	.00350	-.01270	.00000	.00000	.02590
.798	-5.000	-.02490	.00260	.01170	-.01730	.00000	.00000	.02560
.798	-4.000	-.01920	.00020	.01790	-.02090	.00000	.00000	.02570
.798	-2.000	-.00670	-.00550	.02660	-.02840	.00000	.00000	.02460
.798	.000	.00160	-.00930	.02790	-.02710	.00000	.00000	.02510
.798	2.000	.00980	-.01200	.02470	-.02490	.00000	.00000	.02510
.798	4.000	.01670	-.01590	.01860	-.01970	.00000	.00000	.02520
.798	5.000	.02300	-.01710	.01430	-.01610	.00000	.00000	.02540
.798	6.000	.02700	-.01900	.00930	-.01230	.00000	.00000	.02690
.798	8.000	.03580	-.02010	-.00520	-.00240	.00000	.00000	.02910
.798	10.000	.04600	-.02320	-.02540	.01060	.00000	.00000	.03290
GRADIENT		.00471	-.00195	.00014	.00015	.00000	.00000	.00010



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) (G3) (T9) (S3/2)

(R83S02) (21 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
.93130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIC = 300.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3018/ 0 RV/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.05490	.01000	-.05280	.01190	.00000	.00000	.03000
.902	-8.000	-.04330	.00970	-.02730	.00060	.00000	.00000	.02770
.902	-6.000	-.03360	.00740	-.00430	-.01020	.00000	.00000	.02610
.902	-5.000	-.02850	.00570	.00460	-.01490	.00000	.00000	.02360
.902	-4.000	-.02270	.00300	.01220	-.01890	.00000	.00000	.02330
.902	-2.000	-.01190	-.00160	.02260	-.02490	.00000	.00000	.02460
.902	.000	-.00230	-.00570	.02650	-.02690	.00000	.00000	.02520
.902	2.000	.00890	-.01190	.02320	-.02610	.00000	.00000	.02360
.902	4.000	.01870	.01600	.01940	-.02090	.00000	.00000	.02600
.902	5.000	.02300	-.01750	.01320	-.01700	.00000	.00000	.02660
.902	6.000	.02790	-.01940	.00740	-.01280	.00000	.00000	.02790
.902	8.000	.03770	-.02280	-.00790	-.00320	.00000	.00000	.02940
.902	10.000	.04750	-.02550	-.02850	.00800	.00000	.00000	.02920
GRADIENT	.00516	-.00236	.00091	-.00023	.00000	.00000	.00000	.00011

RUN NO. 3016/ 0 RV/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.06780	.01560	-.04290	.00790	.00000	.00000	.02140
1.050	-8.000	-.05360	.01390	-.01600	-.00430	.00000	.00000	.01970
1.050	-6.000	-.04150	.01230	.00830	-.01660	.00000	.00000	.01700
1.050	-5.000	-.03530	.01120	.01830	-.02220	.00000	.00000	.01640
1.050	-4.000	-.02930	.00930	.02590	-.02720	.00000	.00000	.01590
1.050	-2.000	-.01800	.00540	.03410	-.03370	.00000	.00000	.01480
1.050	.000	-.00830	.00190	.03350	-.03420	.00000	.00000	.01440
1.050	2.000	.00320	-.00460	.02760	-.03000	.00000	.00000	.01430
1.050	4.000	.01460	-.01110	.01950	-.02360	.00000	.00000	.01550
1.050	5.000	.02000	-.01390	.01470	-.02000	.00000	.00000	.01650
1.050	6.000	.02590	-.01690	.01020	-.01650	.00000	.00000	.01820
1.050	8.000	.03830	-.02270	-.00490	-.00670	.00000	.00000	.01920
1.050	10.000	.05160	-.02860	-.02950	.00730	.00000	.00000	.01650
GRADIENT	.00551	-.00252	.00063	-.00036	.00000	.00000	.00000	-.00002

MSFC 570 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)

(R83502) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3017/ 0 RIN/L = 6.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.249	-10.000	-.07230	.01190	-.03270	.01100	.00000	.00000	.03390
1.249	-8.000	-.03460	.00870	-.02270	-.00290	.00000	.00000	.03160
1.249	-6.000	-.04000	.00610	.00330	-.01690	.00000	.00000	.02990
1.249	-5.000	-.03380	.00540	.01470	-.02350	.00000	.00000	.02950
1.249	-4.000	-.02930	.00310	.02470	-.02990	.00000	.00000	.02930
1.249	-2.000	-.02000	.00350	.03580	-.03840	.00000	.00000	.02970
1.249	.000	-.01340	.00600	.03620	-.03950	.00000	.00000	.02830
1.249	2.000	-.00170	.00010	.02990	-.03430	.00000	.00000	.03000
1.249	4.000	.00900	-.00490	.02290	-.02950	.00000	.00000	.03070
1.249	5.000	.01370	-.00650	.01860	-.02710	.00000	.00000	.03060
1.249	6.000	.01870	-.00820	.01310	-.02390	.00000	.00000	.03100
1.249	8.000	.03190	-.01390	-.00370	-.01460	.00000	.00000	.03100
1.249	10.000	.04990	-.02270	-.02980	-.00160	.00000	.00000	.02990
GRADIENT		.00470	-.00123	.00000	-.00010	.00000	.00000	.00015

RUN NO. 3034/ 0 RIN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.461	-10.000	-.08250	.01900	-.03980	.01700	.00000	.00000	.02590
1.461	-8.000	-.03680	.00920	-.02740	-.00130	.00000	.00000	.02470
1.461	-6.000	-.04090	.00570	.00120	-.01760	.00000	.00000	.02390
1.461	-5.000	-.03460	.00540	.01330	-.02440	.00000	.00000	.02410
1.461	-4.000	-.02910	.00570	.02340	-.03030	.00000	.00000	.02490
1.461	-2.000	-.02070	.00730	.03530	-.03890	.00000	.00000	.02450
1.461	.000	-.01340	.00720	.03590	-.03930	.00000	.00000	.02450
1.461	2.000	-.00310	.00310	.02900	-.03510	.00000	.00000	.02560
1.461	4.000	.00590	.00000	.02170	-.02990	.00000	.00000	.02560
1.461	5.000	.00990	-.00090	.01720	-.02710	.00000	.00000	.02690
1.461	6.000	.01490	-.00220	.01230	-.02430	.00000	.00000	.02690
1.461	8.000	.02580	-.00500	-.00390	-.01600	.00000	.00000	.02760
1.461	10.000	.03840	-.00810	-.02920	-.00400	.00000	.00000	.02930
GRADIENT		.00442	-.00070	.00000	-.00005	.00000	.00000	.00027



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TABULATED SOURCE DATA - HSFC 570

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HSFC 570 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(R03502) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3039/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.000	-1.0670	.03600	-.06150	.03190	.00000	.00000	.02230
1.966	-8.000	-.07520	.02150	-.04580	.02220	.00000	.00000	.02160
1.966	-6.000	-.03030	.01170	-.02090	.00330	.00000	.00000	.02030
1.966	-5.000	-.04110	.00920	-.00770	-.00340	.00000	.00000	.01930
1.966	-4.000	-.03390	.00810	.00460	-.01200	.00000	.00000	.01930
1.966	-2.000	-.02270	.00790	.02160	-.02360	.00000	.00000	.01820
1.966	.000	-.01490	.00890	.02600	-.03110	.00000	.00000	.01900
1.966	2.000	-.00600	.00720	.02470	-.03160	.00000	.00000	.01700
1.966	4.000	.00320	.00540	.01810	-.02780	.00000	.00000	.01650
1.966	5.000	.00870	.00420	.01220	-.02400	.00000	.00000	.01690
1.966	6.000	.01560	.00220	.00440	-.01970	.00000	.00000	.01780
1.966	8.000	.03390	-.00440	-.01610	-.00550	.00000	.00000	.02000
1.966	10.000	.05810	-.01470	-.04300	.01050	.00000	.00000	.02190
GRADIENT		.00479	-.00041	.00177	-.00199	.00000	.00000	-.00025

RUN NO. 3035/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.09810	.04250	-.03900	.01870	.00000	.00000	.01330
2.990	-8.000	-.07880	.03290	-.03440	.01820	.00000	.00000	.01320
2.990	-6.000	-.03750	.02180	-.02390	.01190	.00000	.00000	.01130
2.990	-5.000	-.04730	.01690	-.01630	.00640	.00000	.00000	.01020
2.990	-4.000	-.03790	.01190	-.00630	-.00130	.00000	.00000	.00910
2.990	-2.000	-.02270	.00630	.01210	-.01650	.00000	.00000	.00940
2.990	.000	-.01230	.00460	.02230	-.02590	.00000	.00000	.00700
2.990	2.000	-.00270	.00220	.02260	-.02780	.00000	.00000	.00870
2.990	4.000	.00680	-.00040	.01640	-.02380	.00000	.00000	.01000
2.990	5.000	.01230	-.00210	.01140	-.02000	.00000	.00000	.01000
2.990	6.000	.01930	-.00440	.00470	-.01460	.00000	.00000	.00980
2.990	8.000	.03530	-.01110	-.00910	-.00390	.00000	.00000	.01010
2.990	10.000	.05390	-.02020	-.02310	.00630	.00000	.00000	.01170
GRADIENT		.00574	-.00167	.00278	-.00272	.00000	.00000	.00004

MSFC 570 (IAS1F) (S3/2) / (03) / (T9) / (S3/2)

(R83502) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COEF16 = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CPBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3036/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.08830	.04760	-.03130	.01300	.00000	.00000	.01100
3.490	-9.000	-.08070	.03940	-.02590	.01160	.00000	.00000	.01030
3.480	-8.000	-.06260	.03040	-.01870	.00770	.00000	.00000	.00940
3.460	-5.000	-.03330	.02350	-.01290	.00370	.00000	.00000	.00870
3.480	-4.000	-.04360	.02030	-.00470	-.00220	.00000	.00000	.00800
3.480	-2.000	-.02840	.01370	.01040	-.01470	.00000	.00000	.00840
3.480	.000	-.01800	.01160	.01990	-.02330	.00000	.00000	.00890
3.480	2.000	-.00710	.00790	.02080	-.02590	.00000	.00000	.00930
3.480	4.000	.00370	.00330	.01330	-.02040	.00000	.00000	.00870
3.480	5.000	.00970	.00090	.00900	-.01650	.00000	.00000	.00800
3.480	6.000	.01690	-.00220	.00230	-.01200	.00000	.00000	.00810
3.480	8.000	.03360	-.00990	-.00770	-.00400	.00000	.00000	.00820
3.480	10.000	.05370	-.01930	-.01600	.00180	.00000	.00000	.00810
GRADIENT		.00609	-.00226	.00219	-.00220	.00000	.00000	.00001

RUN NO. 3037/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07440	.04000	-.01940	.00460	.00000	.00000	.00390
4.960	-9.000	-.06060	.03320	-.01480	.00350	.00000	.00000	.00360
4.960	-8.000	-.04610	.02560	-.00940	.00060	.00000	.00000	.00370
4.960	-5.000	-.03920	.02200	-.00560	-.00210	.00000	.00000	.00370
4.960	-4.000	-.03240	.01890	.00340	-.00700	.00000	.00000	.00360
4.960	-2.000	-.02200	.01480	.00830	-.01400	.00000	.00000	.00390
4.960	.000	-.01460	.01310	.01120	-.01630	.00000	.00000	.00400
4.960	2.000	-.00490	.00870	.00870	-.01470	.00000	.00000	.00390
4.960	4.000	.00780	.00110	.00220	-.00960	.00000	.00000	.00370
4.960	5.000	.01490	-.00280	-.00090	-.00700	.00000	.00000	.00350
4.960	6.000	.02200	-.00660	-.00330	-.00300	.00000	.00000	.00350
4.960	8.000	.03690	-.01340	-.00570	-.00290	.00000	.00000	.00330
4.960	10.000	.05250	-.01920	-.00480	-.00330	.00000	.00000	.00320
GRADIENT		.00517	-.00230	.00035	-.00040	.00000	.00000	.00000



MSFC 570 (1A31F) (53/2) / (03) / (T8) / (53/2)

(R93503) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3021/ 1 RNVL = 4.99 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.000	-.05370	.01240	-.02820	.01180	.00000	.00000	.03610
.600	-8.000	-.04250	.00950	-.00760	-.00030	.00000	.00000	.03260
.600	-6.000	-.02700	.00240	.01160	-.01260	.00000	.00000	.03130
.600	-5.000	-.01960	-.00090	.01930	-.01760	.00000	.00000	.03080
.600	-4.000	-.01480	-.00270	.02470	-.02100	.00000	.00000	.02970
.600	-2.000	-.00480	-.00610	.02960	-.02580	.00000	.00000	.02850
.600	.000	.00280	-.00630	.02680	-.02540	.00000	.00000	.02730
.600	2.000	.01060	-.01200	.02240	-.02230	.00000	.00000	.02630
.600	4.000	.01960	-.01330	.01960	-.01810	.00000	.00000	.03090
.600	5.000	.02210	-.01620	.01350	-.01510	.00000	.00000	.03190
.600	6.000	.02460	-.01610	.01090	-.01090	.00000	.00000	.03390
.600	8.000	.03160	-.01660	-.00250	-.00080	.00000	.00000	.03440
.600	10.000	.04150	-.01870	-.02150	.01120	.00000	.00000	.03490
GRADIENT		.00415	-.00154	-.00064	.00035	.00000	.00000	.00011

RUN NO. 3022/ 0 RNVL = 5.96 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	-.05560	.01300	-.04600	.01430	.00000	.00000	.02990
.799	-8.000	-.04440	.01060	-.02080	.00160	.00000	.00000	.02790
.799	-6.000	-.03330	.00710	-.00020	-.00940	.00000	.00000	.02720
.799	-5.000	-.02790	.00320	.00790	-.01410	.00000	.00000	.02690
.799	-4.000	-.02280	.00330	.01460	-.01800	.00000	.00000	.02600
.799	-2.000	-.01240	-.00040	.02430	-.02410	.00000	.00000	.02480
.799	.000	-.00320	-.00400	.02630	-.02350	.00000	.00000	.02310
.799	2.000	.00560	-.00630	.02350	-.02350	.00000	.00000	.02620
.799	4.000	.01550	-.01270	.01730	-.01630	.00000	.00000	.02700
.799	5.000	.02050	-.01460	.01280	-.01450	.00000	.00000	.02750
.799	6.000	.02460	-.01610	.00710	-.01010	.00000	.00000	.02850
.799	8.000	.03330	-.01850	-.00790	-.00010	.00000	.00000	.02970
.799	10.000	.04280	-.02060	-.02810	.01110	.00000	.00000	.02970
GRADIENT		.00479	-.00199	.00037	-.00002	.00000	.00000	.00011

NSFC 370 (1A31F) (S3/21) (G3) / (T9) / (S3/2)

(R03S03) (21 SEP 73)

REFERENCE DATA

BRZF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRZF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COMFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

PARAMETRIC DATA

RUN NO. 3023/ 0 RN/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.03920	.01430	-.05400	.01420	.00000	.00000	.02450
.900	-8.000	-.04870	.01320	-.02860	.00250	.00000	.00000	.02730
.900	-6.000	-.03720	.01050	-.00640	-.00920	.00000	.00000	.02350
.900	-5.000	-.03150	.00850	.00240	-.01290	.00000	.00000	.02470
.900	-4.000	-.02620	.00620	.00950	-.01670	.00000	.00000	.02450
.900	-3.000	-.01550	.00170	.02060	-.02250	.00000	.00000	.02350
.900	-2.000	-.00610	-.00210	.02440	-.02470	.00000	.00000	.02320
.900	2.000	.00490	-.00790	.02260	-.02340	.00000	.00000	.02390
.900	4.000	.01520	-.01270	.01640	-.01910	.00000	.00000	.02620
.900	5.000	.01980	-.01460	.01150	-.01150	.00000	.00000	.02630
.900	6.000	.02430	-.01640	.00560	-.01180	.00000	.00000	.02590
.900	8.000	.03380	-.02000	-.00980	-.00200	.00000	.00000	.02490
.900	10.000	.04390	-.02340	-.03010	.00980	.00000	.00000	.02950
GRADIENT		.00514	-.00233	.00096	-.00029	.00000	.00000	.00017

RUN NO. 3023/ 0 RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.07110	.01930	-.04650	.01190	.00000	.00000	.02090
1.050	-8.000	-.05710	.01730	-.02020	-.00030	.00000	.00000	.01870
1.050	-6.000	-.04440	.01530	.00500	-.01330	.00000	.00000	.01720
1.050	-5.000	-.03870	.01430	.01490	-.01900	.00000	.00000	.01640
1.050	-4.000	-.03360	.01330	.02220	-.02390	.00000	.00000	.01560
1.050	-2.000	-.02230	.00950	.03090	-.03090	.00000	.00000	.01490
1.050	.000	-.01330	.00630	.03090	-.03200	.00000	.00000	.01450
1.050	2.000	-.00050	-.00140	.02550	-.02840	.00000	.00000	.01520
1.050	4.000	.01170	-.00890	.01790	-.02230	.00000	.00000	.01590
1.050	5.000	.01700	-.01170	.01310	-.01860	.00000	.00000	.01620
1.050	6.000	.02270	-.01460	.00770	-.01470	.00000	.00000	.01670
1.050	8.000	.03510	-.02050	-.00730	-.00540	.00000	.00000	.01740
1.050	10.000	.04870	-.02660	-.02960	.00600	.00000	.00000	.01890
GRADIENT		.00559	-.00267	-.00041	.00013	.00000	.00000	.00000

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TABULATED SOURCE DATA - NSFC 370

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NSFC 370 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R03S03) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3024/ 0 R/V/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.07610	.01310	-.03780	.01520	.00000	.00000	.03330
1.245	-8.000	-.03800	.01140	-.02640	.00090	.00000	.00000	.03140
1.245	-6.000	-.04310	.00870	-.00120	-.01200	.00000	.00000	.03070
1.245	-5.000	-.03710	.00820	.00970	-.01850	.00000	.00000	.03020
1.245	-4.000	-.03210	.00830	.01960	-.02500	.00000	.00000	.02950
1.245	-2.000	-.02340	.00850	.03230	-.03300	.00000	.00000	.02910
1.245	.000	-.01790	.00990	.03370	-.03750	.00000	.00000	.02900
1.245	2.000	-.00680	.00420	.02830	-.03280	.00000	.00000	.03050
1.245	4.000	.00440	-.00130	.02090	-.02780	.00000	.00000	.03110
1.245	5.000	.00930	-.00300	.01630	-.02540	.00000	.00000	.03020
1.245	6.000	.01460	-.00500	.01080	-.02220	.00000	.00000	.02930
1.245	8.000	.02720	-.00990	-.00350	-.01380	.00000	.00000	.02890
1.245	10.000	.04290	-.01650	-.02930	-.00240	.00000	.00000	.03070
GRADIENT		.00457	-.00114	.00034	-.00046	.00000	.00000	.00010

RUN NO. 3032/ 0 R/V/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-10.000	-.08540	.02150	-.06230	.02030	.00000	.00000	.02690
1.459	-8.000	-.06020	.01200	-.03180	.02260	.00000	.00000	.02570
1.459	-6.000	-.04440	.00840	-.00290	-.01360	.00000	.00000	.02430
1.459	-5.000	-.03810	.00900	.00950	-.02080	.00000	.00000	.02410
1.459	-4.000	-.03230	.00810	.02050	-.02750	.00000	.00000	.02430
1.459	-2.000	-.02490	.00970	.03240	-.03610	.00000	.00000	.02390
1.459	.000	-.01820	.01150	.03300	-.03760	.00000	.00000	.02400
1.459	2.000	-.00740	.00690	.02710	-.03350	.00000	.00000	.02550
1.459	4.000	.00220	.00260	.01970	-.02860	.00000	.00000	.02670
1.459	5.000	.00620	.00180	.01530	-.02620	.00000	.00000	.02720
1.459	6.000	.01070	.00080	.01010	-.02320	.00000	.00000	.02810
1.459	8.000	.02150	-.00170	-.00320	-.01570	.00000	.00000	.02930
1.459	10.000	.03490	-.00550	-.02790	-.00610	.00000	.00000	.02920
GRADIENT		.00436	-.00065	.00017	-.00029	.00000	.00000	.00032

NSFC 370 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R03503) (21 SEP 75)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRBINC = 1.300
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3041/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-1.1030	.03930	-.06490	.03330	.00000	.00000	.02300
1.967	-8.000	-.07800	.02370	-.03050	.02730	.00000	.00000	.01910
1.967	-6.000	-.03360	.01440	-.02540	.01000	.00000	.00000	.01920
1.967	-5.000	-.04460	.01200	-.01200	.00900	.00000	.00000	.01990
1.967	-4.000	-.03740	.01090	.00950	-.00790	.00000	.00000	.01790
1.967	-2.000	-.02700	.01140	.01770	-.02190	.00000	.00000	.01620
1.967	.000	-.02030	.01340	.02390	-.02940	.00000	.00000	.01530
1.967	2.000	-.01190	.01270	.02410	-.03130	.00000	.00000	.01530
1.967	4.000	-.00130	.01000	.01750	-.02750	.00000	.00000	.01900
1.967	5.000	.00500	.00790	.01100	-.02340	.00000	.00000	.01660
1.967	6.000	.01330	.00420	.00190	-.01750	.00000	.00000	.01750
1.967	8.000	.03270	-.00420	-.01950	-.00350	.00000	.00000	.01940
1.967	10.000	.05550	-.01340	-.04460	.01150	.00000	.00000	.02290
GRADIENT		.00470	-.00024	.00219	-.00243	.00000	.00000	-.00023

RUN NO. 3054/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10160	.04570	-.04150	.02110	.00000	.00000	.01360
2.990	-8.000	-.08120	.03570	-.03570	.01990	.00000	.00000	.01390
2.990	-6.000	-.06020	.02460	-.02540	.01370	.00000	.00000	.01050
2.990	-5.000	-.05020	.01940	-.01890	.00920	.00000	.00000	.00920
2.990	-4.000	-.04020	.01460	-.00920	.00970	.00000	.00000	.00990
2.990	-2.000	-.02590	.00930	.01010	-.01450	.00000	.00000	.00970
2.990	.000	-.01530	.00720	.02080	-.02470	.00000	.00000	.00930
2.990	2.000	-.00520	.00490	.02290	-.02790	.00000	.00000	.01040
2.990	4.000	.00460	.00200	.01630	-.02390	.00000	.00000	.01040
2.990	5.000	.01040	.00010	.01090	-.01990	.00000	.00000	.01050
2.990	6.000	.01740	-.00220	.00330	-.01420	.00000	.00000	.01050
2.990	8.000	.03350	-.00910	-.00960	-.00370	.00000	.00000	.01070
2.990	10.000	.05230	-.01850	-.02280	.00500	.00000	.00000	.01100
GRADIENT		.00582	-.00173	.00297	-.00294	.00000	.00000	.00019



MSFC 570 (1A31F) (S3/2) / (Q3) / (T0) / (83/2)

(R03503) (21 SEP 73)

REFERENCE DATA

XREF = .9720 SQ. IN XMRP = 2.5490 IN.
 YREF = 5.3130 IN. YMRP = .0000 IN.
 ZREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA	=	.000	CCNFIG	=	300.000
DELTAZ	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRBNIC	=	1.500
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.000			

RUN NO. 3053/ 0 R/V/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10250	.05190	-.03320	.01499	.00000	.00000	.01110
3.480	-8.000	-.08420	.04320	-.02630	.01380	.00000	.00000	.00990
3.480	-6.000	-.06580	.03390	-.02020	.00940	.00000	.00000	.00940
3.480	-5.000	-.05690	.02990	-.01440	.00540	.00000	.00000	.00900
3.480	-4.000	-.04700	.02400	-.00700	-.00010	.00000	.00000	.00920
3.480	-2.000	-.03150	.01710	.00910	-.01340	.00000	.00000	.00990
3.480	.000	-.02080	.01430	.01900	-.02270	.00000	.00000	.00930
3.480	2.000	-.01040	.01140	.02010	-.02330	.00000	.00000	.00940
3.490	4.000	.00060	.00720	.01310	-.02030	.00000	.00000	.00990
3.480	5.000	.00690	.00460	.00790	-.01610	.00000	.00000	.00930
3.480	6.000	.01400	.00140	.00140	-.01130	.00000	.00000	.00790
3.480	8.000	.03090	-.00690	-.00860	-.00390	.00000	.00000	.00790
3.480	10.000	.03140	-.01760	-.01430	.00050	.00000	.00000	.00960
GRADIENT		.00611	-.00223	.00239	-.00236	.00000	.00000	.00001

RUN NO. 3052/ 0 RVL = 5.05 GRADIENT INTERVAL = -5.05/ 5.08

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07620	.04230	-.01610	.00420	.00000	.00000	.00350
4.960	-6.000	-.06260	.03590	-.01550	.00460	.00000	.00000	.00370
4.960	-6.000	-.04900	.02930	-.00950	.00150	.00000	.00000	.00330
4.960	-3.000	-.04120	.02470	-.00560	-.00120	.00000	.00000	.00320
4.960	-4.000	-.03500	.02130	-.00070	-.00030	.00000	.00000	.00350
4.960	-2.000	-.02450	.01720	.00930	-.01260	.00000	.00000	.00390
4.960	.000	-.01750	.01610	.01080	-.01590	.00000	.00000	.00400
4.960	2.000	-.00780	.01160	.00920	-.01410	.00000	.00000	.00400
4.960	4.000	.00530	.00430	.00310	.00320	.00000	.00000	.00390
4.960	5.000	.01220	.00000	.00000	-.00660	.00000	.00000	.00370
4.960	6.000	.01900	-.00370	-.00290	-.00450	.00000	.00000	.00350
4.960	8.000	.03250	-.01060	-.00900	-.00180	.00000	.00000	.00320
4.960	10.000	.04590	-.01650	-.01510	-.00100	.00000	.00000	.00290
GRADIENT		.00513	-.00226	.00048	-.00050	.00000	.00000	.00000

MSFC 370 (1A31F) (S3/2)/(03)/(79)/(S3/2)

(R03S04) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
SREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLG = 300.000
DELTAZ = .280 RUDDER = .000
X-SRB = .000 CRBINC = -.300
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 3010/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.000	-.03220	.01120	-.02780	.01230	.00000	.00000	.03170
.600	-8.000	-.03890	.00710	-.00640	-.00030	.00000	.00000	.02940
.600	-6.000	-.02390	.00060	.01130	-.01070	.00000	.00000	.02740
.600	-5.000	-.01700	-.00240	.01910	-.01490	.00000	.00000	.02690
.600	-4.000	-.01110	-.00480	.02350	-.01900	.00000	.00000	.02690
.600	-2.000	-.00120	-.00860	.02690	-.02270	.00000	.00000	.02650
.600	.000	.00620	-.01060	.02510	-.02260	.00000	.00000	.02620
.600	2.000	.01390	-.01400	.02100	-.01930	.00000	.00000	.02690
.600	4.000	.02140	-.01680	.01610	-.01400	.00000	.00000	.02900
.600	5.000	.02530	-.01790	.01250	-.01030	.00000	.00000	.02850
.600	6.000	.02990	-.01910	.00710	-.00510	.00000	.00000	.02900
.600	8.000	.03970	-.02090	-.00830	.00670	.00000	.00000	.02990
.600	10.000	.04640	-.02110	-.03010	.02060	.00000	.00000	.03350
GRADIENT	.00413	-.00151	-.00077	-.00077	.00055	.00000	.00000	.00015

RUN NO. 3009/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.797	-10.000	-.05270	.00970	-.04470	.01400	.00000	.00000	.02990
.797	-8.000	-.04540	.00710	-.02020	.00210	.00000	.00000	.02940
.797	-6.000	-.03010	.00460	.00070	-.00900	.00000	.00000	.02570
.797	-5.000	-.02450	.00270	.00900	-.01370	.00000	.00000	.02470
.797	-4.000	-.01800	-.00020	.01330	-.01750	.00000	.00000	.02440
.797	-2.000	-.00520	-.00640	.02300	-.02220	.00000	.00000	.02330
.797	.000	.00340	-.00930	.02420	-.02260	.00000	.00000	.02400
.797	2.000	.01290	-.01370	.02020	-.01900	.00000	.00000	.02400
.797	4.000	.02220	-.01760	.01370	-.01330	.00000	.00000	.02340
.797	5.000	.02540	-.01890	.00950	-.00950	.00000	.00000	.02600
.797	6.000	.03090	-.02010	.00440	-.00600	.00000	.00000	.02690
.797	8.000	.03990	-.02240	-.01100	.00420	.00000	.00000	.02460
.797	10.000	.04870	-.02430	-.03420	.01350	.00000	.00000	.02990
GRADIENT	.00501	-.00213	-.00011	-.00011	.00047	.00000	.00000	.00015

NSFC 570 (1A31F) (S3/2)/(O31)/(T9)/(S3/2)

(R03504) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF = 300.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3008/ 0 RN/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.903	-10.000	-.03370	.00910	-.03050	.01170	.00000	.00000	.02860
.903	-8.000	-.04280	.00830	-.02640	.00130	.00000	.00000	.02650
.903	-6.000	-.03170	.00570	-.00490	-.00890	.00000	.00000	.02360
.903	-5.000	-.02590	.00350	.00380	-.01310	.00000	.00000	.02300
.903	-4.000	-.01970	.00060	.01060	-.01660	.00000	.00000	.02430
.903	-2.000	-.00820	-.00430	.02120	-.02230	.00000	.00000	.02320
.903	.000	.00160	-.00860	.02500	-.02440	.00000	.00000	.02390
.903	2.000	.01290	-.01440	.02230	-.02190	.00000	.00000	.02440
.903	4.000	.02310	-.01990	.01440	-.01590	.00000	.00000	.02310
.903	5.000	.02760	-.02050	.00890	-.01190	.00000	.00000	.02570
.903	6.000	.03190	-.02200	.00270	-.00790	.00000	.00000	.02630
.903	8.000	.04150	-.02500	-.01350	.00210	.00000	.00000	.02930
.903	10.000	.05210	-.02840	-.03510	.01490	.00000	.00000	.03140
GRADIENT	.00534	-.00242	.00048	.00048	.00011	.00000	.00000	.00010

RUN NO. 3007/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	-.06370	.01270	-.03950	.00630	.00000	.00000	.02040
1.053	-8.000	-.05030	.01140	-.01510	-.00420	.00000	.00000	.01780
1.053	-6.000	-.03780	.00970	.00900	-.01600	.00000	.00000	.01610
1.053	-5.000	-.03160	.00820	.01830	-.02120	.00000	.00000	.01520
1.053	-4.000	-.02560	.00630	.02490	-.02350	.00000	.00000	.01430
1.053	-2.000	-.01400	.00220	.03160	-.03090	.00000	.00000	.01260
1.053	.000	-.00350	-.00250	.03010	-.03030	.00000	.00000	.01210
1.053	2.000	.00850	-.00930	.02440	-.02390	.00000	.00000	.01240
1.053	4.000	.01920	-.01490	.01760	-.02050	.00000	.00000	.01370
1.053	5.000	.02420	-.01710	.01310	-.01720	.00000	.00000	.01450
1.053	6.000	.03010	-.01980	.00720	-.01300	.00000	.00000	.01500
1.053	8.000	.04220	-.02310	-.00940	-.00220	.00000	.00000	.01690
1.053	10.000	.05430	-.02980	-.03300	.01150	.00000	.00000	.01990
GRADIENT	.00559	-.00260	.00077	-.00077	.00056	.00000	.00000	-.00007

WSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R83504) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
DELTAZ = .280 RUDDER = .000
X-SRB = .000 CRG1NC = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3006/ 0 RN/L = 6.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	-.07090	.01100	-.04900	.00900	.00000	.00000	.03290
1.247	-6.000	-.05230	.00690	-.01940	-.00520	.00000	.00000	.03070
1.247	-6.000	-.03630	.00390	.00600	-.01670	.00000	.00000	.02790
1.247	-5.000	-.03020	.00320	.01660	-.02470	.00000	.00000	.02570
1.247	-4.000	-.02500	.00310	.02370	-.03000	.00000	.00000	.02590
1.247	-2.000	-.01670	.00370	.03440	-.03390	.00000	.00000	.02390
1.247	.000	-.00860	.00220	.03290	-.03490	.00000	.00000	.02380
1.247	2.000	.00110	-.00150	.02620	-.02970	.00000	.00000	.02700
1.247	4.000	.01070	-.00520	.01850	-.02430	.00000	.00000	.02990
1.247	5.000	.01550	-.00690	.01360	-.02130	.00000	.00000	.02990
1.247	6.000	.02090	-.00870	.00720	-.01720	.00000	.00000	.02930
1.247	8.000	.03340	-.01300	-.01110	-.00710	.00000	.00000	.02920
1.247	10.000	.04900	-.01840	-.03750	.00340	.00000	.00000	.02930
GRADIENT		.00452	-.00105	-.00067	.00058	.00000	.00000	.00032

RUN NO. 3033/ 0 RN/L = 6.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-10.000	-.07930	.01640	-.05370	.01290	.00000	.00000	.02990
1.461	-6.000	-.05500	.00790	-.02390	-.00450	.00000	.00000	.02690
1.461	-6.000	-.03970	.00410	.00390	-.01990	.00000	.00000	.02510
1.461	-5.000	-.03210	.00370	.01560	-.02650	.00000	.00000	.02500
1.461	-4.000	-.02630	.00400	.02570	-.03220	.00000	.00000	.02520
1.461	-2.000	-.01600	.00360	.03540	-.03860	.00000	.00000	.02390
1.461	.000	-.00680	.00150	.03390	-.03790	.00000	.00000	.02360
1.461	2.000	.00250	-.00130	.02860	-.03430	.00000	.00000	.02470
1.461	4.000	.01060	-.00260	.02170	-.02900	.00000	.00000	.02590
1.461	5.000	.01430	-.00280	.01670	-.02370	.00000	.00000	.02620
1.461	6.000	.01900	-.00300	.01060	-.02220	.00000	.00000	.02630
1.461	8.000	.02760	-.00420	-.00730	-.01260	.00000	.00000	.02720
1.461	10.000	.04050	-.00620	-.03390	.00110	.00000	.00000	.02920
GRADIENT		.00463	-.00076	-.00027	.00029	.00000	.00000	.00011

MSFC 970 (1A31F) (S3/2)/(03)/(T9)/(S3/2)

(R83504) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CEBINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3038/ 0 RVL = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.09920	.02810	-.06060	.03210	.00000	.00000	.02240
1.967	-8.000	-.06680	.01260	-.04430	.02160	.00000	.00000	.02050
1.967	-6.000	-.04230	.00340	-.01940	.00490	.00000	.00000	.02120
1.967	-5.000	-.03330	.00110	-.00620	-.00400	.00000	.00000	.02060
1.967	-4.000	-.02630	.00020	.00820	-.01290	.00000	.00000	.01930
1.967	-2.000	-.01480	-.00010	.02170	-.02510	.00000	.00000	.01950
1.967	.000	-.00660	.00050	.02570	-.03010	.00000	.00000	.02020
1.967	2.000	.00120	.00030	.02410	-.03030	.00000	.00000	.01830
1.967	4.000	.00910	.00040	.01780	-.02660	.00000	.00000	.01800
1.967	5.000	.01470	.00010	.01220	-.02300	.00000	.00000	.01990
1.967	6.000	.02100	-.00190	.00450	-.01780	.00000	.00000	.01970
1.967	8.000	.03760	-.00640	-.01590	-.00480	.00000	.00000	.02130
1.967	10.000	.05660	-.01020	-.04330	.01070	.00000	.00000	.02250
GRADIENT	.00456	.00456	-.00004	.00159	-.00178	.00000	.00000	-.00019

RUN NO. 3049/ 0 RVL = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.09910	.04490	-.03570	.01370	.00000	.00000	.01310
2.990	-8.000	-.08020	.03590	-.03070	.01300	.00000	.00000	.01350
2.990	-6.000	-.05980	.02490	-.01960	.00830	.00000	.00000	.01150
2.990	-5.000	-.04890	.02000	-.01190	.00270	.00000	.00000	.01040
2.990	-4.000	-.04020	.01610	-.00230	-.00480	.00000	.00000	.00970
2.990	-2.000	-.02640	.01150	.01470	-.01910	.00000	.00000	.00990
2.990	.000	-.01520	.00920	.02360	-.02700	.00000	.00000	.01110
2.990	2.000	-.00430	.00540	.02360	-.02830	.00000	.00000	.01150
2.990	4.000	.00610	.00190	.01640	-.02350	.00000	.00000	.01090
2.990	5.000	.01190	.00010	.01100	-.01930	.00000	.00000	.01040
2.990	6.000	.01850	-.00170	.00440	-.01420	.00000	.00000	.01040
2.990	8.000	.03600	-.00970	-.00340	-.00340	.00000	.00000	.01030
2.990	10.000	.05940	-.02410	-.02490	.00760	.00000	.00000	.00980
GRADIENT	.00592	.00592	-.00187	.00230	-.00226	.00000	.00000	.00008

NSFC 570 (IAB1P) (S3/2) (C3) / (T9) / (S3/2)

(R83504) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 300.000
 DELTAZ = .250 RUDDER = .000
 X-SR9 = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3050/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.0000	.0300	-.02840	.01040	.00000	.00000	.01070
3.480	-8.000	-.03190	.04200	-.02270	.00990	.00000	.00000	.01070
3.480	-6.000	-.06350	.03270	-.01530	.00510	.00000	.00000	.00960
3.480	-5.000	-.03410	.02780	-.00990	.00130	.00000	.00000	.00920
3.480	-4.000	-.04450	.02280	-.00200	-.00440	.00000	.00000	.00910
3.480	-2.000	-.02910	.01390	.01270	-.01640	.00000	.00000	.00970
3.480	.000	-.01810	.01310	.02050	-.02360	.00000	.00000	.01020
3.480	2.000	-.00680	.00870	.01950	-.02450	.00000	.00000	.00930
3.480	4.000	.00390	.00390	.01270	-.01930	.00000	.00000	.00820
3.480	5.000	.01050	.00150	.00760	-.01530	.00000	.00000	.00800
3.480	6.000	.01700	-.00050	.00110	-.01010	.00000	.00000	.00810
3.480	8.000	.03420	-.00860	-.00940	-.00210	.00000	.00000	.00800
3.480	10.000	.05770	-.02280	-.01550	.00190	.00000	.00000	.00710
GRADIENT		.00627	-.00245	.00179	-.00176	.00000	.00000	-.00012

RUN NO. 3051/ 0 RN/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07170	.03830	-.01430	.00060	.00000	.00000	.00390
4.960	-8.000	-.03890	.03300	-.01170	.00120	.00000	.00000	.00410
4.960	-6.000	-.04480	.02370	-.00590	-.00210	.00000	.00000	.00420
4.960	-5.000	-.03810	.02220	-.00200	-.00490	.00000	.00000	.00430
4.960	-4.000	-.03210	.01900	.00270	-.00890	.00000	.00000	.00410
4.960	-2.000	-.02200	.01550	.01070	-.01530	.00000	.00000	.00410
4.960	.000	-.01360	.01310	.01250	-.01690	.00000	.00000	.00420
4.960	2.000	-.00290	.00730	.00970	-.01390	.00000	.00000	.00410
4.960	4.000	.01020	-.00060	.00340	-.00910	.00000	.00000	.00390
4.960	5.000	.01700	-.00450	.00060	-.00670	.00000	.00000	.00370
4.960	6.000	.02400	-.00940	-.00240	-.00450	.00000	.00000	.00350
4.960	8.000	.03790	-.01560	-.00930	-.00070	.00000	.00000	.00290
4.960	10.000	.05200	-.02240	-.01730	.00220	.00000	.00000	.00210
GRADIENT		.00637	-.00254	.00013	-.00008	.00000	.00000	-.00005



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R03505) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 300.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3011/ 1 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.03380	.01280	-.02340	.00920	.00000	.00000	.03700
.599	-8.000	-.04120	.00900	-.00490	-.00310	.00000	.00000	.03390
.599	-6.000	-.02730	.00290	.01330	-.01410	.00000	.00000	.03090
.599	-5.000	-.02040	-.00030	.02090	-.01870	.00000	.00000	.03010
.599	-4.000	-.01350	-.00320	.02690	-.02300	.00000	.00000	.03050
.599	-2.000	-.00280	-.00730	.03250	-.02790	.00000	.00000	.02960
.599	.000	.00400	-.00930	.02940	-.02740	.00000	.00000	.02910
.599	2.000	.01200	-.01280	.02310	-.02420	.00000	.00000	.02910
.599	4.000	.02000	-.01570	.02100	-.01990	.00000	.00000	.03200
.599	5.000	.02370	-.01660	.01770	-.01660	.00000	.00000	.03330
.599	6.000	.02730	-.01750	.01330	-.01230	.00000	.00000	.03390
.599	8.000	.03590	-.01980	-.00140	-.00120	.00000	.00000	.03450
.599	10.000	.04530	-.01930	-.02450	.01320	.00000	.00000	.03530
GRADIENT	.00427	.00427	-.00156	-.00056	.00034	.00000	.00000	.00023

RUN NO. 3012/ 1 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.797	-10.000	-.03220	.00970	-.04230	.01090	.00000	.00000	.03170
.797	-8.000	-.04110	.00760	-.01790	-.00120	.00000	.00000	.02990
.797	-6.000	-.02930	.00400	.00310	-.01240	.00000	.00000	.02870
.797	-5.000	-.02340	.00180	.01160	-.01700	.00000	.00000	.02810
.797	-4.000	-.01770	-.00050	.01810	-.02100	.00000	.00000	.02740
.797	-2.000	-.00600	-.00380	.02600	-.02600	.00000	.00000	.02500
.797	.000	.00310	-.00920	.02730	-.02660	.00000	.00000	.02550
.797	2.000	.01220	-.01350	.02320	-.02320	.00000	.00000	.02630
.797	4.000	.02060	-.01690	.01640	-.01730	.00000	.00000	.02760
.797	5.000	.02460	-.01790	.01190	-.01350	.00000	.00000	.02840
.797	6.000	.02900	-.01930	.00660	-.00940	.00000	.00000	.02920
.797	8.000	.03780	-.02160	-.00900	.00110	.00000	.00000	.03030
.797	10.000	.04620	-.02290	-.03160	.01470	.00000	.00000	.03090
GRADIENT	.00477	.00477	-.00199	-.00012	.00042	.00000	.00000	.00005

WSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(RASSOS) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 CONFIC = 300.000
 DELTAZ = .250 RUDDER = .000
 X-SR9 = .000 CRBTNC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

PARAMETRIC DATA

RUN NO. 3013/ 1 RV/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
.899	-10.000	-.03600	.01110	-.03020	.00000	.00000	.00000	.03000
.899	-8.000	-.04510	.00990	-.02630	.00000	.00000	.00000	.02730
.899	-6.000	-.03420	.00750	-.00390	.00000	.00000	.00000	.02570
.899	-5.000	-.02620	.00530	.00900	.00000	.00000	.00000	.02550
.899	-4.000	-.02170	.00220	.01200	.00000	.00000	.00000	.02570
.899	-2.000	-.01090	-.00230	.02250	.00000	.00000	.00000	.02570
.899	.000	-.00120	-.00630	.02640	.00000	.00000	.00000	.02570
.899	2.000	.01050	-.01270	.02400	.00000	.00000	.00000	.02640
.899	4.000	.02080	-.01710	.01650	.00000	.00000	.00000	.02710
.899	5.000	.02510	-.01850	.01100	.00000	.00000	.00000	.02750
.899	6.000	.02970	-.02020	.03430	.00000	.00000	.00000	.02750
.899	8.000	.03990	-.02320	-.01240	.00000	.00000	.00000	.02950
.899	10.000	.04800	-.02540	-.03360	.00000	.00000	.00000	.03320
GRADIENT		.00533	-.00241	.00057	.00002	.00000	.00000	.00019

RUN NO. 3015/ 1 RV/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
1.050	-10.000	-.06750	.01590	-.04170	.00750	.00000	.00000	.02350
1.050	-8.000	-.03410	.01450	-.01590	-.00390	.00000	.00000	.02030
1.050	-6.000	-.04140	.01290	.00870	-.01660	.00000	.00000	.01710
1.050	-5.000	-.03540	.01160	.01930	-.02210	.00000	.00000	.01640
1.050	-4.000	-.02970	.00990	.02510	-.02670	.00000	.00000	.01650
1.050	-2.000	-.01840	.00610	.03250	-.03250	.00000	.00000	.01530
1.050	.000	-.00890	.00260	.03140	-.03220	.00000	.00000	.01500
1.050	2.000	.00360	-.00450	.02550	-.02780	.00000	.00000	.01540
1.050	4.000	.01570	-.01160	.01920	-.02180	.00000	.00000	.01610
1.050	5.000	.02110	-.01430	.01340	-.01810	.00000	.00000	.01640
1.050	6.000	.02690	-.01710	.00710	-.01370	.00000	.00000	.01650
1.050	8.000	.03870	-.02230	-.00960	-.00330	.00000	.00000	.01710
1.050	10.000	.05080	-.02710	-.03220	.00900	.00000	.00000	.01850
GRADIENT		.00565	-.00263	-.00073	.00054	.00000	.00000	-.00002



NSFC 570 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R03S05) (21 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 300.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBTNC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3014/ 1 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.07390	.01340	-.03200	.01020	.00000	.00000	.03460
1.250	-8.000	-.05470	.00910	-.02120	-.00410	.00000	.00000	.03240
1.250	-6.000	-.03980	.00640	.00410	-.01750	.00000	.00000	.03090
1.250	-5.000	-.03360	.00580	.01500	-.02390	.00000	.00000	.03050
1.250	-4.000	-.02820	.00570	.02460	-.02990	.00000	.00000	.03030
1.250	-2.000	-.01970	.00640	.03520	-.03780	.00000	.00000	.02860
1.250	.000	-.01310	.00650	.03430	-.03740	.00000	.00000	.02850
1.250	2.000	-.00240	.00190	.02810	-.03250	.00000	.00000	.03100
1.250	4.000	.00780	-.00260	.02020	-.02700	.00000	.00000	.03160
1.250	5.000	.01250	-.00410	.01520	-.02400	.00000	.00000	.03120
1.250	6.000	.01760	-.00590	.00950	-.02070	.00000	.00000	.03150
1.250	8.000	.03010	-.01070	-.00810	-.01130	.00000	.00000	.03190
1.250	10.000	.04600	-.01730	-.03500	.00220	.00000	.00000	.03130
GRADIENT		.00455	-.00192	-.00034	.00023	.00000	.00000	.00015

RUN NO. 3033/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-10.000	-.08210	.01890	-.05680	.01580	.00000	.00000	.02990
1.459	-8.000	-.05640	.00910	-.02680	-.00200	.00000	.00000	.02730
1.459	-6.000	-.04090	.00620	.00170	-.01780	.00000	.00000	.02610
1.459	-5.000	-.03480	.00620	.01390	-.02450	.00000	.00000	.02540
1.459	-4.000	-.02910	.00650	.02410	-.03040	.00000	.00000	.02470
1.459	-2.000	-.01940	.00670	.03410	-.03720	.00000	.00000	.02370
1.459	.000	-.01200	.00650	.03300	-.03720	.00000	.00000	.02490
1.459	2.000	-.00250	.00340	.02720	-.03320	.00000	.00000	.02440
1.459	4.000	.00580	.00120	.01960	-.02780	.00000	.00000	.02530
1.459	5.000	.00940	.00090	.01480	-.02480	.00000	.00000	.02610
1.459	6.000	.01330	.00070	.00960	-.02190	.00000	.00000	.02690
1.459	8.000	.02340	-.00050	-.00740	-.01310	.00000	.00000	.02960
1.459	10.000	.03670	-.00350	-.03440	.00000	.00000	.00000	.03070
GRADIENT		.00438	-.00060	-.00030	.00019	.00000	.00000	.00009

MSFC 570 (1A31F) (S3/2) / (03) / (19) / (S3/2)

(R93S05) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 300.000
DELTAZ = .290 RUDDER = .000
X-SRB = .000 CFSINC = .500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 3040/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.965	-10.000	-1.10220	.03100	-.06260	.03420	.00000	.00000	.02300
1.965	-8.000	-.07020	.01570	-.04730	.02510	.00000	.00000	.01970
1.965	-6.000	-.04580	.00640	-.02260	.00840	.00000	.00000	.02030
1.965	-5.000	-.03680	.00420	-.00920	-.00090	.00000	.00000	.02000
1.965	-4.000	-.02980	.00340	.00390	-.01020	.00000	.00000	.01490
1.965	-2.000	-.01860	.00330	.02010	-.02360	.00000	.00000	.01780
1.965	.000	-.01180	.00340	.02490	-.02960	.00000	.00000	.01710
1.965	2.000	-.00390	.00340	.02360	-.03000	.00000	.00000	.01660
1.965	4.000	.00500	.00490	.01720	-.02620	.00000	.00000	.01720
1.965	5.000	.01030	.00430	.01120	-.02250	.00000	.00000	.01810
1.965	6.000	.01720	.00240	.00220	-.01640	.00000	.00000	.01970
1.965	8.000	.03440	-.00300	-.01920	-.00290	.00000	.00000	.02190
1.965	10.000	.03530	-.01020	-.04390	.01090	.00000	.00000	.02130
GRADIENT	.00449	.00012	.00012	.00181	-.00205	.00000	.00000	-.00021

RUN NO. 3048/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	-1.10130	.04690	-.03740	.01730	.00000	.00000	.01330
2.990	-8.000	-.06240	.03810	-.03160	.01380	.00000	.00000	.01330
2.990	-6.000	-.06120	.02700	-.02100	.00940	.00000	.00000	.01190
2.990	-5.000	-.05120	.02200	-.01340	.00390	.00000	.00000	.01130
2.990	-4.000	-.04230	.01900	-.00350	-.00390	.00000	.00000	.01140
2.990	-2.000	-.02830	.01340	.01460	-.01880	.00000	.00000	.01090
2.990	.000	-.01830	.01210	.02320	-.02690	.00000	.00000	.01140
2.990	2.000	-.00730	.00860	.02370	-.02870	.00000	.00000	.01130
2.990	4.000	.00370	.00470	.01730	-.02430	.00000	.00000	.01030
2.990	5.000	.00970	.00260	.01190	-.02010	.00000	.00000	.00990
2.990	6.000	.01640	.00050	.00430	-.01440	.00000	.00000	.00980
2.990	8.000	.03410	-.00770	-.00930	-.00390	.00000	.00000	.01010
2.990	10.000	.05790	-.02210	-.02090	.00470	.00000	.00000	.01060
GRADIENT	.00589	-.00178	.00253	.00253	-.00246	.00000	.00000	-.00012

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TABULATED SOURCE DATA - MSFC 970

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MSFC 970 (1A31F) (S3/2) / (O3) / (T0) / (S3/2)

(R830S) (21 SEP 73)

REFERENCE DATA

BRP = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3047/ 0 RIVL = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10370	.03470	-.02990	.01180	.00000	.00000	.01030
3.480	-8.000	-.08330	.04570	-.02390	.01020	.00000	.00000	.01040
3.480	-6.000	-.06620	.03560	-.01610	.00600	.00000	.00000	.01010
3.480	-5.000	-.05680	.03070	-.01040	.00210	.00000	.00000	.00990
3.480	-4.000	-.04700	.02550	-.00290	-.00340	.00000	.00000	.00940
3.480	-2.000	-.03140	.01830	.01180	-.01560	.00000	.00000	.01010
3.480	.000	-.02120	.01610	.01970	-.02320	.00000	.00000	.01020
3.480	2.000	-.01030	.01240	.01970	-.02430	.00000	.00000	.00930
3.480	4.000	.00150	.00750	.01280	-.01910	.00000	.00000	.00910
3.480	5.000	.00780	.00500	.00740	-.01490	.00000	.00000	.00750
3.480	6.000	.01400	.00300	.00020	-.00970	.00000	.00000	.00750
3.480	8.000	.03110	-.00510	-.01100	-.00150	.00000	.00000	.00770
3.480	10.000	.05530	-.01950	-.01630	.00270	.00000	.00000	.00760
GRADIENT		.00620	-.00236	.00186	-.00184	.00000	.00000	-.00020

RUN NO. 3046/ 0 RIVL = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07660	.04340	-.01730	.00230	.00000	.00000	.00350
4.960	-8.000	-.06270	.03700	-.01260	.00210	.00000	.00000	.00400
4.960	-6.000	-.04860	.02970	-.00560	-.00160	.00000	.00000	.00400
4.960	-5.000	-.04180	.02630	-.00160	-.00430	.00000	.00000	.00400
4.960	-4.000	-.03530	.02310	.00260	-.00850	.00000	.00000	.00390
4.960	-2.000	-.02510	.01920	.01090	-.01490	.00000	.00000	.00390
4.960	.000	-.01730	.01700	.01190	-.01600	.00000	.00000	.00370
4.960	2.000	-.00640	.01090	.00760	-.01280	.00000	.00000	.00370
4.960	4.000	.00710	.00290	.00240	-.00800	.00000	.00000	.00360
4.960	5.000	.01390	-.00040	-.00040	-.00540	.00000	.00000	.00360
4.960	6.000	.02030	-.00350	-.00390	-.00290	.00000	.00000	.00340
4.960	9.000	.03210	-.00840	-.01240	.00130	.00000	.00000	.00290
4.960	10.000	.04250	-.01170	-.02300	.00550	.00000	.00000	.00210
GRADIENT		.00339	-.00257	-.00001	.00002	.00000	.00000	-.00003

WSFC 570(1A31F)(S3/2)/(Q3)/(T9)/(S3/2)

(R83S06) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF1G = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 ORBITC = 1.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3030/ 0 RV/L = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
.599	-10.000	-.05680	.01550	-.02810	.01200	.00000	.00000	.03340
.599	-8.000	-.04390	.01160	-.00710	-.00040	.00000	.00000	.03160
.599	-6.000	-.02900	.00480	.01060	-.01130	.00000	.00000	.02920
.599	-5.000	-.02220	.00170	.01790	-.01620	.00000	.00000	.02790
.599	-4.000	-.01660	-.00030	.02410	-.02040	.00000	.00000	.02710
.599	-2.000	-.00750	-.00320	.02850	-.02510	.00000	.00000	.02540
.599	.000	.00040	-.00590	.02390	-.02430	.00000	.00000	.02470
.599	2.000	.00640	-.00930	.02130	-.02080	.00000	.00000	.02640
.599	4.000	.01680	-.01310	.01690	-.01610	.00000	.00000	.02940
.599	5.000	.02090	-.01450	.01360	-.01310	.00000	.00000	.03050
.599	6.000	.02450	-.01490	.00980	-.00930	.00000	.00000	.03020
.599	8.000	.03240	-.01610	-.00280	.00000	.00000	.00000	.03150
.599	10.000	.04140	-.01790	-.02270	.01280	.00000	.00000	.03600
.599	GRADIENT	.00423	-.00161	-.00072	.00046	.00000	.00000	.00027

RUN NO. 3029/ 0 RV/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
.800	-10.000	-.03710	.01480	-.04420	.01310	.00000	.00000	.02970
.800	-8.000	-.04610	.01240	-.01980	.00070	.00000	.00000	.02700
.800	-6.000	-.03440	.00870	.00100	-.01060	.00000	.00000	.02610
.800	-5.000	-.02870	.00650	.00920	-.01320	.00000	.00000	.02600
.800	-4.000	-.02340	.00450	.01560	-.01990	.00000	.00000	.02610
.800	-2.000	-.01190	-.00030	.02430	-.02420	.00000	.00000	.02340
.800	.000	-.00250	-.00390	.02590	-.02300	.00000	.00000	.02340
.800	2.000	.00660	-.00820	.02300	-.02290	.00000	.00000	.02330
.800	4.000	.01570	-.01210	.01590	-.01710	.00000	.00000	.02330
.800	5.000	.02010	-.01360	.01100	-.01320	.00000	.00000	.02340
.800	6.000	.02430	-.01590	.00630	-.00960	.00000	.00000	.02900
.800	8.000	.03340	-.01780	-.00790	-.00020	.00000	.00000	.03430
.800	10.000	.04340	-.02100	-.02950	.01220	.00000	.00000	.03430
.800	GRADIENT	.00486	-.00203	.00009	.00022	.00000	.00000	-.00005



HSFC 570 (1A31F) (S3/2) (O3) (T9) (S3/2)

(R03506) (21 SEP 73)

REFERENCE DATA

BREF = .9780 SQ. IN. YMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COMPTC = 300.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 ORBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3026/ 0 RNVL = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.09910	.01470	-.05220	.01310	.00000	.00000	.02870
.901	-8.000	-.04660	.01210	-.02810	.00200	.00000	.00000	.02700
.901	-6.000	-.03660	.01040	-.00600	-.00690	.00000	.00000	.02500
.901	-5.000	-.03170	.00980	.00310	-.01350	.00000	.00000	.02460
.901	-4.000	-.02590	.00630	.01090	-.01760	.00000	.00000	.02460
.901	-2.000	-.01540	.00190	.02180	-.02360	.00000	.00000	.02310
.901	.000	-.00570	-.00220	.02310	-.02340	.00000	.00000	.02370
.901	2.000	.00370	-.00620	.02350	-.02420	.00000	.00000	.02390
.901	4.000	.01580	-.01280	.01680	-.01940	.00000	.00000	.02650
.901	5.000	.02030	-.01460	.01140	-.01570	.00000	.00000	.02710
.901	6.000	.02540	-.01690	.00590	-.01120	.00000	.00000	.02820
.901	8.000	.03510	-.02030	-.01150	-.00100	.00000	.00000	.02990
.901	10.000	.04390	-.02220	-.03280	.01050	.00000	.00000	.03020
GRADIENT		.00521	-.00237	.00076	-.00022	.00000	.00000	.00024

RUN NO. 3026/ 0 RNVL = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-.07130	.01950	-.04550	.01120	.00000	.00000	.01950
1.051	-8.000	-.05730	.01760	-.01910	-.00070	.00000	.00000	.01740
1.051	-6.000	-.04410	.01550	.00570	-.01360	.00000	.00000	.01590
1.051	-5.000	-.03830	.01430	.01530	-.01930	.00000	.00000	.01520
1.051	-4.000	-.03300	.01320	.02230	-.02410	.00000	.00000	.01460
1.051	-2.000	-.02210	.00960	.03080	-.03090	.00000	.00000	.01350
1.051	.000	-.01240	.00590	.03020	-.03120	.00000	.00000	.01330
1.051	2.000	.00030	-.00200	.02470	-.02740	.00000	.00000	.01380
1.051	4.000	.01260	-.00930	.01720	-.02130	.00000	.00000	.01460
1.051	5.000	.01810	-.01210	.01230	-.01750	.00000	.00000	.01510
1.051	6.000	.02360	-.01490	.00660	-.01340	.00000	.00000	.01560
1.051	8.000	.03520	-.02010	-.00900	-.00380	.00000	.00000	.01630
1.051	10.000	.04750	-.02470	-.03090	.00790	.00000	.00000	.01700
GRADIENT		.00566	-.00272	-.00063	.00030	.00000	.00000	.00000

MSFC 570 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)

(R93506) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COEFIC = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SQB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3027/ 0 RIV/L = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.07730	.01700	-.03370	.01310	.00000	.00000	.03410
1.250	-8.000	-.05690	.01280	-.02500	-.00090	.00000	.00000	.03220
1.250	-6.000	-.04330	.00990	.00130	-.01490	.00000	.00000	.03060
1.250	-5.000	-.03740	.00940	.01240	-.02130	.00000	.00000	.03030
1.250	-4.000	-.03250	.00940	.02170	-.02720	.00000	.00000	.03050
1.250	-2.000	-.02390	.00990	.03320	-.03610	.00000	.00000	.02930
1.250	.000	-.01900	.01060	.03370	-.03730	.00000	.00000	.03190
1.250	2.000	-.00660	.00490	.02820	-.02790	.00000	.00000	.03390
1.250	4.000	.00450	-.00040	.02090	-.02790	.00000	.00000	.03270
1.250	5.000	.00900	-.00190	.01590	-.02310	.00000	.00000	.03220
1.250	6.000	.01350	-.00300	.01010	-.02190	.00000	.00000	.03200
1.250	8.000	.02470	-.00640	-.00690	-.01320	.00000	.00000	.03290
1.250	10.000	.03920	-.01140	-.03150	-.00220	.00000	.00000	.00000
GRADIENT		.00461	-.00117	.00005	-.00016	.00000	.00000	.00000

RUN NO. 3031/ 0 RIV/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.455	-10.000	-.08500	.02080	-.05980	.01860	.00000	.00000	.02890
1.455	-8.000	-.06080	.01230	-.03030	.00140	.00000	.00000	.02690
1.455	-6.000	-.04400	.00860	-.00160	-.01490	.00000	.00000	.02550
1.455	-5.000	-.03740	.00920	.01090	-.02210	.00000	.00000	.02520
1.455	-4.000	-.03170	.00850	.02170	-.02840	.00000	.00000	.02490
1.455	-2.000	-.02330	.00980	.03200	-.03540	.00000	.00000	.02450
1.455	.000	-.01700	.01140	.03220	-.03660	.00000	.00000	.02360
1.455	2.000	-.00730	.00800	.02620	-.03240	.00000	.00000	.02620
1.455	4.000	.00170	.00490	.01940	-.02730	.00000	.00000	.02840
1.455	5.000	.00560	.00440	.01370	-.02470	.00000	.00000	.02940
1.455	6.000	.00910	.00460	.00780	-.02180	.00000	.00000	.02770
1.455	8.000	.02010	.00220	-.00860	-.01290	.00000	.00000	.02750
1.455	10.000	.03690	-.00460	-.03170	.00030	.00000	.00000	.02990
GRADIENT		.00423	-.00041	-.00012	-.00003	.00000	.00000	.00037

WSFC 370 (1A31F) (S3/2)/(03)/(19)/(S3/2)

(R03S06) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 300.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3042/ 0 RVL = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.000	-.10450	.03310	-.06420	.03590	.00000	.00000	.02440
1.966	-8.000	-.07430	.01960	-.04870	.02660	.00000	.00000	.02030
1.966	-6.000	-.04950	.01010	-.02410	.01000	.00000	.00000	.01950
1.966	-5.000	-.04010	.00740	-.01100	.00100	.00000	.00000	.01960
1.966	-4.000	-.03270	.00600	-.00170	-.00790	.00000	.00000	.01730
1.966	-2.000	-.02130	.00330	.01790	-.02130	.00000	.00000	.01560
1.966	.000	-.01490	.00810	.02300	-.02810	.00000	.00000	.01590
1.966	2.000	-.00770	.00930	.02230	-.02990	.00000	.00000	.01670
1.966	4.000	.00030	.00950	.01620	-.02560	.00000	.00000	.01820
1.966	5.000	.00360	.00920	.01010	-.02230	.00000	.00000	.01930
1.966	6.000	.01190	.00780	.00030	-.01690	.00000	.00000	.02070
1.966	8.000	.02960	.00160	-.02130	-.00240	.00000	.00000	.02250
1.966	10.000	.05450	-.00910	-.04470	.01100	.00000	.00000	.02250
GRADIENT		.00432	.00034	.00191	-.00224	.00000	.00000	.00010

RUN NO. 3043/ 0 RVL = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10470	.03050	-.03990	.01960	.00000	.00000	.01320
2.990	-8.000	-.08520	.04140	-.03240	.01710	.00000	.00000	.01270
2.990	-6.000	-.06420	.03030	-.02230	.01090	.00000	.00000	.01120
2.990	-5.000	-.05410	.02510	-.01300	.00540	.00000	.00000	.01090
2.990	-4.000	-.04450	.02060	-.00460	-.00270	.00000	.00000	.01150
2.990	-2.000	-.03030	.01600	.01340	-.01780	.00000	.00000	.01230
2.990	.000	-.02070	.01510	.02280	-.02660	.00000	.00000	.01220
2.990	2.000	-.01120	.00870	.02320	-.02850	.00000	.00000	.01150
2.990	4.000	.00000	.00870	.01650	-.02390	.00000	.00000	.01060
2.990	5.000	.00650	.00630	.01090	-.01960	.00000	.00000	.01020
2.990	6.000	.01390	.00350	.00410	-.01450	.00000	.00000	.00990
2.990	8.000	.03070	-.00310	-.01300	-.00160	.00000	.00000	.00950
2.990	10.000	.05050	-.01130	-.03510	.01470	.00000	.00000	.00960
GRADIENT		.00377	-.00165	.00259	-.00257	.00000	.00000	-.00010

WSFC 570(1A31F)(S3/2)/(O3)/(19)/(S3/2)

(R03506) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CRAFT = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 GRINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3044/ 0 RV/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	-.10660	.05930	-.03210	.01420	.00000	.00000	.01040
3.480	-8.000	-.08990	.05000	-.02620	.01220	.00000	.00000	.01000
3.480	-6.000	-.07060	.03980	-.01840	.00790	.00000	.00000	.01010
3.480	-5.000	-.06070	.03440	-.01240	.00390	.00000	.00000	.01000
3.480	-4.000	-.05060	.02990	-.00430	-.00220	.00000	.00000	.00940
3.480	-2.000	-.03490	.02170	.01030	-.01450	.00000	.00000	.00910
3.480	.000	-.02390	.01900	.01940	-.02300	.00000	.00000	.00930
3.480	2.000	-.01290	.01550	.02000	-.02470	.00000	.00000	.00900
3.480	4.000	-.00130	.01100	.01260	-.01940	.00000	.00000	.00910
3.480	5.000	.00490	.00860	.00690	-.01310	.00000	.00000	.00940
3.480	6.000	.01130	.00630	-.00060	-.00950	.00000	.00000	.00720
3.480	8.000	.02950	-.00190	-.01260	-.00070	.00000	.00000	.00720
3.480	10.000	.05240	-.01370	-.01890	.00490	.00000	.00000	.00750
GRADIENT		.00632	-.00237	.00204	-.00204	.00000	.00000	-.00020

RUN NO. 3045/ 0 RV/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
4.960	-10.000	-.08050	.04800	-.01420	.00070	.00000	.00000	.00340
4.960	-8.000	-.06610	.04040	-.01340	.00270	.00000	.00000	.00390
4.960	-6.000	-.05170	.03290	-.00900	-.00010	.00000	.00000	.00390
4.960	-5.000	-.04490	.02950	-.00390	-.00290	.00000	.00000	.00390
4.960	-4.000	-.03960	.02620	.00140	-.00730	.00000	.00000	.00390
4.960	-2.000	-.02830	.02190	.00970	-.01400	.00000	.00000	.00370
4.960	.000	-.01970	.01950	.01210	-.01590	.00000	.00000	.00360
4.960	2.000	-.00920	.01410	.00900	-.01360	.00000	.00000	.00370
4.960	4.000	.00390	.00590	.00230	-.00770	.00000	.00000	.00350
4.960	5.000	.01070	.00210	-.00120	-.00450	.00000	.00000	.00330
4.960	6.000	.01710	-.00100	-.00310	-.00190	.00000	.00000	.00310
4.960	8.000	.02980	-.00330	-.01300	.00130	.00000	.00000	.00300
4.960	10.000	.03900	-.00690	-.02100	.00220	.00000	.00000	.00310
GRADIENT		.00540	-.00260	.00319	-.00010	.00000	.00000	-.00000

MSFC 570 (1131F) (S3/2) / (03) / (19) / (S3/2)

(R09507) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3105/ 0 RVL = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.000	-.03340	.01690	.06180	-.03210	.00000	.00000	.02990
.802	-8.000	-.02800	.01240	.05320	-.04700	.00000	.00000	.02970
.802	-6.000	-.02130	.00820	.04900	-.04260	.00000	.00000	.02910
.802	-4.000	-.01430	.00370	.04460	-.03920	.00000	.00000	.02930
.802	-2.000	-.00810	-.00030	.03890	-.03310	.00000	.00000	.02960
.802	.000	-.00160	-.00450	.03160	-.02990	.00000	.00000	.02790
.802	2.000	.00260	-.00790	.02410	-.02410	.00000	.00000	.02550
.802	4.000	.00830	-.01210	.01440	-.01710	.00000	.00000	.02560
.802	6.000	.01200	-.01500	.00810	-.01290	.00000	.00000	.02450
.802	8.000	.01490	-.01690	.00430	-.01180	.00000	.00000	.02990
.802	10.000	.01850	-.01930	.00430	-.01370	.00000	.00000	.03190
.802	GRADIENT	.00279	-.00196	-.00376	.00276	.00000	.00000	-.00059

RUN NO. 3104/ 0 RVL = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	-.04590	.02470	.06240	-.05430	.00000	.00000	.02940
.799	-8.000	-.03650	.01870	.05490	-.04870	.00000	.00000	.02900
.799	-6.000	-.02760	.01310	.04900	-.04390	.00000	.00000	.02760
.799	-4.000	-.01920	.00760	.04340	-.03960	.00000	.00000	.02590
.799	-2.000	-.01320	.00410	.03660	-.03380	.00000	.00000	.02590
.799	.000	-.00710	.00010	.02960	-.02850	.00000	.00000	.02310
.799	2.000	.00120	-.00620	.02230	-.02300	.00000	.00000	.02340
.799	4.000	.00740	-.01130	.01490	-.01750	.00000	.00000	.02540
.799	6.000	.01270	-.01550	.00840	-.01320	.00000	.00000	.02730
.799	8.000	.01550	-.01750	.00550	-.01270	.00000	.00000	.03040
.799	10.000	.01950	-.01930	.00900	-.01940	.00000	.00000	.02960
.799	GRADIENT	.00338	-.00240	-.00357	.00275	.00000	.00000	-.00012

MSFC 570 (11A31F) (S3/2)/(O3)/(T9)/(S3/2)

(R83S07) (14 SEP 73)

REFERENCE DATA

BREF = .9780 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 300.000
DELTAZ = .140 RUDDER = .000
X-SR9 = .000 CRBINC = .000
SPACER = .000 SPADTA = .000
SPACAP = .000

RUN NO. 3103/ 0 RN/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.895	-10.000	-.05260	.03000	.06450	-.05690	.00000	.00000	.03090
.895	-8.000	-.04170	.02260	.03650	-.05090	.00000	.00000	.02990
.895	-6.000	-.03260	.01640	.04930	-.04490	.00000	.00000	.02750
.895	-4.000	-.02540	.01230	.04320	-.03990	.00000	.00000	.02630
.895	-2.000	-.01710	.00690	.03640	-.03420	.00000	.00000	.02550
.895	.000	-.00990	.00130	.02890	-.02950	.00000	.00000	.02490
.895	2.000	-.00200	-.00450	.02200	-.02350	.00000	.00000	.02400
.895	4.000	.00330	-.01020	.01610	-.01930	.00000	.00000	.02430
.895	6.000	.01030	-.01390	.01150	-.01670	.00000	.00000	.02530
.895	8.000	.01240	-.01340	.01010	-.01740	.00000	.00000	.02720
.895	10.000	.01410	-.01530	.01770	-.02610	.00000	.00000	.02650
GRADIENT		.00382	-.00291	-.00343	.00260	.00000	.00000	-.00029

RUN NO. 3102/ 0 RN/L = 5.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.045	-10.000	-.05400	.03370	.07200	-.06230	.00000	.00000	.02300
1.045	-8.000	-.04370	.02680	.06420	-.05650	.00000	.00000	.02200
1.045	-6.000	-.03450	.02090	.05750	-.05190	.00000	.00000	.02130
1.045	-4.000	-.02560	.01460	.05010	-.04670	.00000	.00000	.02050
1.045	-2.000	-.01800	.00920	.04150	-.04010	.00000	.00000	.01900
1.045	.000	-.01090	.00420	.03240	-.03350	.00000	.00000	.01900
1.045	2.000	-.00190	-.00330	.02420	-.02790	.00000	.00000	.01290
1.045	4.000	.00640	-.01050	.01720	-.02260	.00000	.00000	.01420
1.045	6.000	.00980	-.01260	.01510	-.02250	.00000	.00000	.01460
1.045	8.000	.01250	-.01410	.01690	-.02600	.00000	.00000	.01500
1.045	10.000	.01790	-.01790	.02330	-.03230	.00000	.00000	.01560
GRADIENT		.00401	-.00313	-.00415	.00306	.00000	.00000	-.00090



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(R03S07) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBLNC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3101/ 1 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.08440	.05180	.07080	-.06030	.00000	.00000	.03990
1.246	-6.000	-.06760	.04110	.06410	-.03620	.00000	.00000	.03750
1.246	-6.000	-.03360	.03190	.03600	-.03230	.00000	.00000	.03370
1.246	-4.000	-.04180	.02380	.03220	-.04900	.00000	.00000	.03360
1.246	-2.000	-.03120	.01650	.04630	-.04340	.00000	.00000	.03120
1.246	.000	-.02160	.01000	.03990	-.04140	.00000	.00000	.02950
1.246	2.000	-.01230	.00300	.03350	-.03700	.00000	.00000	.02600
1.246	4.000	-.00250	-.00510	.02620	-.03160	.00000	.00000	.02960
1.246	6.000	.00480	-.01110	.02360	-.03110	.00000	.00000	.03040
1.246	8.000	.01180	-.01660	.02400	-.03330	.00000	.00000	.02990
1.246	10.000	.01810	-.02130	.02820	-.03900	.00000	.00000	.02970
GRADIENT		.00487	-.00356	-.00324	.00216	.00000	.00000	-.00076

RUN NO. 3100/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	-.06580	.04660	.06630	-.03810	.00000	.00000	.03280
1.465	-6.000	-.05320	.03740	.06110	-.03520	.00000	.00000	.03090
1.465	-6.000	-.04220	.02940	.05530	-.03160	.00000	.00000	.02940
1.465	-4.000	-.03350	.02350	.04930	-.04800	.00000	.00000	.02860
1.465	-2.000	-.02700	.01920	.04330	-.04440	.00000	.00000	.02510
1.465	.000	-.02090	.01440	.03570	-.03920	.00000	.00000	.02150
1.465	2.000	-.01160	.00620	.02920	-.03490	.00000	.00000	.02300
1.465	4.000	-.00320	-.00120	.02290	-.03000	.00000	.00000	.02370
1.465	6.000	.00420	-.00780	.01980	-.02960	.00000	.00000	.02380
1.465	8.000	.01010	-.01230	.02150	-.03350	.00000	.00000	.02510
1.465	10.000	.01720	-.01790	.02830	-.04110	.00000	.00000	.02600
GRADIENT		.00380	-.00312	-.00335	.00220	.00000	.00000	-.00059

MSFC 570 (1A31F) (S3/2) (G3) (T9) (S3/2)

(R03S07) (14 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFTG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SR9 = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3442/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.983	-10.000	-.02250	.03810	.03650	-.03170	.00000	.00000	.02220
1.983	-8.000	-.04090	.02950	.03130	-.04650	.00000	.00000	.02210
1.983	-6.000	-.03220	.02150	.04470	-.04220	.00000	.00000	.02200
1.983	-4.000	-.02490	.01570	.03780	-.03740	.00000	.00000	.02130
1.983	-2.000	-.02030	.01270	.03050	-.03230	.00000	.00000	.01970
1.983	.000	-.01630	.00950	.02500	-.02970	.00000	.00000	.01850
1.983	2.000	-.00960	.00400	.01830	-.02490	.00000	.00000	.01690
1.983	4.000	-.00340	-.00160	.01370	-.02310	.00000	.00000	.01720
1.983	6.000	.00210	-.00620	.01050	-.02220	.00000	.00000	.01590
1.983	8.000	.00910	-.01130	.01030	-.02470	.00000	.00000	.01650
1.983	10.000	.01720	-.01990	.01310	-.02990	.00000	.00000	.01590
GRADIENT		.00269	-.00216	-.00302	.00180	.00000	.00000	-.00055

RUN NO. 3061/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.04790	.03940	.05340	-.04730	.00000	.00000	.01320
2.990	-8.000	-.04160	.03330	.04630	-.04450	.00000	.00000	.01400
2.990	-6.000	-.03510	.02710	.04230	-.04000	.00000	.00000	.01450
2.990	-4.000	-.02830	.02110	.03590	-.03520	.00000	.00000	.01450
2.990	-2.000	-.02130	.01470	.02990	-.03110	.00000	.00000	.01330
2.990	.000	-.01410	.00770	.02390	-.02730	.00000	.00000	.01020
2.990	2.000	-.00690	.00100	.01710	-.02260	.00000	.00000	.00920
2.990	4.000	-.00160	-.00330	.01040	-.01730	.00000	.00000	.00350
2.990	6.000	.00190	-.00640	.00400	-.01270	.00000	.00000	.00940
2.990	8.000	.00600	-.01070	-.00140	-.01000	.00000	.00000	.01110
2.990	10.000	.01060	-.01540	-.00380	-.00960	.00000	.00000	.00990
GRADIENT		.00339	-.00312	-.00318	.00221	.00000	.00000	-.00071



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (S3/2)/(03)/(19)/(S3/2)

(R63507) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3062/ 0 RV/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.04630	.04170	.03340	-.04750	.00000	.00000	.00830
3.480	-8.000	-.04110	.03900	.04750	-.04380	.00000	.00000	.00770
3.480	-6.000	-.03540	.03040	.04130	-.03910	.00000	.00000	.00960
3.480	-4.000	-.02990	.02310	.03490	-.03440	.00000	.00000	.01130
3.480	-2.000	-.02380	.01880	.02930	-.02970	.00000	.00000	.01100
3.480	.000	-.01630	.01140	.02190	-.02340	.00000	.00000	.00830
3.480	2.000	-.00950	.00440	.01530	-.02090	.00000	.00000	.00710
3.480	4.000	-.00460	-.00030	.00870	-.01600	.00000	.00000	.00920
3.480	6.000	-.00120	-.00320	.00250	-.01130	.00000	.00000	.00810
3.480	8.000	.00210	-.00670	-.00300	-.00930	.00000	.00000	.00940
3.480	10.000	.00530	-.01030	-.00590	-.00760	.00000	.00000	.00790
3.480	GRADIENT	.00324	-.00326	-.00327	.00228	.00000	.00000	-.00051

RUN NO. 3063/ 0 RV/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.03940	.04040	.04900	-.04630	.00000	.00000	.00200
4.960	-8.000	-.03300	.03340	.04280	-.04150	.00000	.00000	.00290
4.960	-6.000	-.02790	.02750	.03640	-.03680	.00000	.00000	.00330
4.960	-4.000	-.02460	.02340	.02970	-.03130	.00000	.00000	.00370
4.960	-2.000	-.02050	.01850	.02210	-.02310	.00000	.00000	.00410
4.960	.000	-.01520	.01270	.01420	-.01970	.00000	.00000	.00410
4.960	2.000	-.01060	.00770	.00700	-.01320	.00000	.00000	.00410
4.960	4.000	-.00940	.00470	.00090	-.00870	.00000	.00000	.00420
4.960	6.000	-.00370	.00210	-.00380	-.00480	.00000	.00000	.00400
4.960	8.000	-.00160	-.00160	-.00630	-.00270	.00000	.00000	.00390
4.960	10.000	.00050	-.00460	-.00650	-.00300	.00000	.00000	.00390
4.960	GRADIENT	.00211	-.00241	-.00365	.00285	.00000	.00000	.00005

MSFC 370 (1A31F) (S3/2)/(031)/(79)/(S3/2)

(R03508) (14 SEP 73)

REFERENCE DATA

SREF = .0720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.000
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3106/ 1 RV/L = 5.99 GRADIENT INTERVAL = -3.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.900	-10.000	.01130	-.00460	.03230	-.05050	.00000	.00000	.03210
.900	-8.000	.01730	-.00990	.04630	-.04900	.00000	.00000	.03030
.900	-6.000	.02040	-.01280	.03970	-.03910	.00000	.00000	.02790
.900	-4.000	.02170	-.01440	.03190	-.03230	.00000	.00000	.02640
.900	-2.000	.02260	-.01370	.02420	-.02560	.00000	.00000	.02510
.900	.000	.02300	-.01660	.01700	-.01910	.00000	.00000	.02570
.900	2.000	.02410	-.01890	.01010	-.01350	.00000	.00000	.02560
.900	4.000	.02430	-.01990	.00360	-.00810	.00000	.00000	.02740
.900	6.000	.02460	-.02030	.00040	-.00630	.00000	.00000	.02830
.900	8.000	.02710	-.02310	.00000	-.00660	.00000	.00000	.03140
.900	10.000	.03200	-.02750	.00000	-.01000	.00000	.00000	.03420
GRADIENT		.00036	-.00069	-.00352	.00303	.00000	.00000	.00019

RUN NO. 3107/ 0 RV/L = 5.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.033	-10.000	.01090	-.00330	.05620	-.05620	.00000	.00000	.02310
1.033	-8.000	.01810	-.00930	.04910	-.05010	.00000	.00000	.02260
1.033	-6.000	.02170	-.01310	.04210	-.04410	.00000	.00000	.02110
1.033	-4.000	.02360	-.01320	.03490	-.03740	.00000	.00000	.01960
1.033	-2.000	.02300	-.01350	.02730	-.03030	.00000	.00000	.01750
1.033	.000	.02270	-.01670	.02040	-.02420	.00000	.00000	.01740
1.033	2.000	.02350	-.01890	.01430	-.01950	.00000	.00000	.01760
1.033	4.000	.02400	-.02040	.00830	-.01540	.00000	.00000	.01920
1.033	6.000	.02460	-.02190	.00390	-.01240	.00000	.00000	.02170
1.033	8.000	.02640	-.02440	.00230	-.01250	.00000	.00000	.02340
1.033	10.000	.02950	-.02760	.00620	-.01700	.00000	.00000	.02500
GRADIENT		.00006	-.00069	-.00328	.00274	.00000	.00000	.00006

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TABULATED SOURCE DATA - NSFC 370

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MSFC 370 (1A31F) (33/2) / (03) / (T9) / (33/2)

(R03308) (14 SEP 73)

REFERENCE DATA

BREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 3.000 CCNFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3109/ 0 RV/L = 6.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	.00090	.00630	.06030	-.06110	.00000	.00000	.03960
1.248	-8.000	.00730	.00270	.03320	-.05330	.00000	.00000	.03790
1.248	-6.000	.01190	-.00170	.04580	-.04890	.00000	.00000	.03660
1.248	-4.000	.01260	-.00280	.03970	-.04300	.00000	.00000	.03430
1.248	-2.000	.01110	-.00230	.03230	-.03790	.00000	.00000	.03130
1.248	.000	.01090	-.00330	.02610	-.03300	.00000	.00000	.02970
1.248	2.000	.01280	-.00710	.02000	-.02840	.00000	.00000	.02940
1.248	4.000	.01460	-.01060	.01440	-.02450	.00000	.00000	.03030
1.248	6.000	.01490	-.01210	.01040	-.02230	.00000	.00000	.03170
1.248	8.000	.01660	-.01500	.01060	-.02420	.00000	.00000	.03400
1.248	10.000	.02190	-.02120	.01500	-.02910	.00000	.00000	.03690
1.248	GRADIENT	.00026	-.00102	-.00305	.00233	.00000	.00000	-.00047

RUN NO. 3099/ 0 RV/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.464	-10.000	.00700	.00570	.05120	-.03160	.00000	.00000	.02860
1.464	-8.000	.01180	.00150	.04490	-.04730	.00000	.00000	.02940
1.464	-6.000	.01390	.00000	.03860	-.04350	.00000	.00000	.02980
1.464	-4.000	.01420	-.00090	.03170	-.03790	.00000	.00000	.02820
1.464	-2.000	.01190	.00010	.02480	-.03290	.00000	.00000	.02400
1.464	.000	.01090	-.00030	.01850	-.02790	.00000	.00000	.02260
1.464	2.000	.01260	-.00410	.01280	-.02420	.00000	.00000	.02260
1.464	4.000	.01340	-.00640	.00870	-.02130	.00000	.00000	.02300
1.464	6.000	.01240	-.00640	.00600	-.02000	.00000	.00000	.02280
1.464	8.000	.01480	-.01040	.00640	-.02150	.00000	.00000	.02670
1.464	10.000	.02210	-.01860	.01140	-.02650	.00000	.00000	.02910
1.464	GRADIENT	-.00004	-.00076	-.00290	.00210	.00000	.00000	-.00039

NSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R03S08) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF16 = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3065/ 0 RV/L = 4.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	.00990	.00770	.04490	-.04330	.00000	.00000	.01190
2.990	-8.000	.01200	.00520	.03980	-.04030	.00000	.00000	.01220
2.990	-6.000	.01380	.00300	.03330	-.03360	.00000	.00000	.01300
2.990	-4.000	.01410	.00150	.02690	-.03090	.00000	.00000	.01350
2.990	-2.000	.01370	.00040	.01940	-.02550	.00000	.00000	.01310
2.990	.000	.01470	-.00180	.01030	-.01940	.00000	.00000	.01150
2.990	2.000	.01600	-.00430	.00230	-.01370	.00000	.00000	.01030
2.990	4.000	.01690	-.00560	-.00390	-.00930	.00000	.00000	.01110
2.990	6.000	.01840	-.00720	-.00990	-.00410	.00000	.00000	.01190
2.990	8.000	.02290	-.01160	-.01070	-.00350	.00000	.00000	.01140
2.990	10.000	.03270	-.02090	-.00780	-.00730	.00000	.00000	.01070
GRADIENT		.00039	-.00094	-.00392	.00284	.00000	.00000	-.00037

RUN NO. 3064/ 0 RV/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	.01240	.00710	.04310	-.04060	.00000	.00000	.00940
3.480	-8.000	.01300	.00520	.03690	-.03690	.00000	.00000	.01000
3.480	-6.000	.01360	.00390	.02990	-.03200	.00000	.00000	.01070
3.480	-4.000	.01330	.00290	.02320	-.02730	.00000	.00000	.01110
3.480	-2.000	.01380	.00090	.01690	-.02270	.00000	.00000	.01010
3.480	.000	.01410	-.00140	.00970	-.01710	.00000	.00000	.00910
3.480	2.000	.01500	-.00370	.00050	-.01150	.00000	.00000	.00750
3.480	4.000	.01590	-.00530	-.00630	-.00630	.00000	.00000	.00840
3.480	6.000	.01840	-.00790	-.01160	-.00290	.00000	.00000	.00870
3.480	8.000	.02420	-.01330	-.01300	-.00090	.00000	.00000	.00790
3.480	10.000	.03140	-.02030	-.01010	-.00380	.00000	.00000	.00690
GRADIENT		.00030	-.00103	-.00377	.00266	.00000	.00000	-.00040



MSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R83509) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3111/ 0 RM/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.00660	-.00120	.05230	-.03040	.00000	.00000	.02980
.900	-8.000	.01230	-.00620	.04380	-.04470	.00000	.00000	.02840
.900	-6.000	.01590	-.00940	.03890	-.03990	.00000	.00000	.02660
.900	-4.000	.01750	-.01130	.03180	-.03250	.00000	.00000	.02490
.900	-2.000	.01800	-.01240	.02460	-.02590	.00000	.00000	.02420
.900	.000	.01850	-.01380	.01630	-.01990	.00000	.00000	.02470
.900	2.000	.02020	-.01640	.00870	-.01210	.00000	.00000	.02460
.900	4.000	.02120	-.01900	.00200	-.00660	.00000	.00000	.02360
.900	6.000	.02210	-.01930	-.00290	-.00320	.00000	.00000	.02720
.900	8.000	.02320	-.02250	-.00420	-.00290	.00000	.00000	.02800
.900	10.000	.03010	-.02700	-.00190	-.00590	.00000	.00000	.03000
GRADIENT		.00048	-.00087	-.00377	.00328	.00000	.00000	.00012

RUN NO. 3110/ 0 RM/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	.00380	.00090	.05640	-.05180	.00000	.00000	.02240
1.050	-8.000	.01300	-.00530	.04930	-.04890	.00000	.00000	.02100
1.050	-6.000	.01750	-.00970	.04070	-.04230	.00000	.00000	.02030
1.050	-4.000	.01780	-.01060	.03300	-.03540	.00000	.00000	.01960
1.050	-2.000	.01730	-.01120	.02530	-.02840	.00000	.00000	.01740
1.050	.000	.01940	-.01360	.01910	-.02190	.00000	.00000	.01640
1.050	2.000	.02000	-.01630	.01170	-.01690	.00000	.00000	.01570
1.050	4.000	.02080	-.01810	.00570	-.01270	.00000	.00000	.01630
1.050	6.000	.02140	-.01970	.00100	-.00930	.00000	.00000	.01940
1.050	8.000	.02320	-.02230	-.00010	-.00970	.00000	.00000	.02050
1.050	10.000	.02750	-.02690	.00200	-.01230	.00000	.00000	.02170
GRADIENT		.00044	-.00100	-.00341	.00284	.00000	.00000	-.00030

WSFC 370 (1A31F) (S3/2)/(Q3)/(T9)/(S3/2)

(R63509) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFLG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3109/ 0 RV/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
1.248	-10.000	-.00430	.01240	.06070	-.06100	.00000	.00000	.03680
1.248	-8.000	.00080	.00770	.03290	-.03490	.00000	.00000	.03610
1.248	-6.000	.00490	.00320	.04510	-.04930	.00000	.00000	.03430
1.248	-4.000	.00570	.00200	.03770	-.04210	.00000	.00000	.03200
1.248	-2.000	.00460	.00230	.03100	-.03670	.00000	.00000	.03040
1.248	.000	.00560	.00010	.02410	-.03130	.00000	.00000	.02940
1.248	2.000	.00830	-.00430	.01740	-.02620	.00000	.00000	.02840
1.248	4.000	.01040	-.00790	.01160	-.02290	.00000	.00000	.02750
1.248	6.000	.01130	-.00990	.00830	-.02060	.00000	.00000	.02620
1.248	8.000	.01400	-.01330	.00830	-.02290	.00000	.00000	.02490
1.248	10.000	.01930	-.02020	.01310	-.02730	.00000	.00000	.02320
1.248	GRADIENT	.00066	-.00132	-.00329	.00254	.00000	.00000	-.00055

RUN NO. 3098/ 0 RV/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
1.467	-10.000	.00290	.00960	.05050	-.05100	.00000	.00000	.03030
1.467	-8.000	.00370	.00590	.04470	-.04710	.00000	.00000	.02910
1.467	-6.000	.00890	.00450	.03790	-.04310	.00000	.00000	.02760
1.467	-4.000	.00860	.00400	.03100	-.03900	.00000	.00000	.02650
1.467	-2.000	.00700	.00420	.02400	-.03260	.00000	.00000	.02360
1.467	.000	.00660	.00290	.01720	-.02740	.00000	.00000	.02290
1.467	2.000	.00920	-.00160	.01100	-.02300	.00000	.00000	.02330
1.467	4.000	.00970	-.00390	.00740	-.02100	.00000	.00000	.02370
1.467	6.000	.00920	-.00390	.00560	-.02040	.00000	.00000	.02190
1.467	8.000	.01200	-.00910	.00540	-.02120	.00000	.00000	.02590
1.467	10.000	.01720	-.01440	.00990	-.02470	.00000	.00000	.02790
1.467	GRADIENT	.00022	-.00104	-.00301	.00218	.00000	.00000	-.00029



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2) (O31) (T9) (S3/2)

(R03509) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3066/ D RV/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.00770	.01060	.04380	-.04190	.00000	.00000	.01220
2.990	-8.000	.00980	.00810	.03900	-.03920	.00000	.00000	.01250
2.990	-6.000	.01100	.00350	.03230	-.03490	.00000	.00000	.01290
2.990	-4.000	.01190	.00370	.02580	-.03020	.00000	.00000	.01320
2.990	-2.000	.01230	.00180	.01830	-.02520	.00000	.00000	.01270
2.990	.000	.01320	-.00040	.01020	-.01930	.00000	.00000	.01110
2.990	2.000	.01440	-.00280	.00220	-.01380	.00000	.00000	.01020
2.990	4.000	.01520	-.00440	-.00450	-.00830	.00000	.00000	.01050
2.990	6.000	.01710	-.00650	-.00910	-.00460	.00000	.00000	.01070
2.990	8.000	.02230	-.01140	-.01010	-.00480	.00000	.00000	.01080
2.990	10.000	.03210	-.02050	-.00750	-.00840	.00000	.00000	.01070
GRADIENT		.00044	-.00104	-.00382	.00276	.00000	.00000	-.00039

RUN NO. 3067/ D RV/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.01100	.00920	.04200	-.03980	.00000	.00000	.00910
3.480	-8.000	.01160	.00730	.03650	-.03630	.00000	.00000	.00990
3.480	-6.000	.01250	.00570	.02980	-.03180	.00000	.00000	.01050
3.480	-4.000	.01150	.00540	.02270	-.02710	.00000	.00000	.01060
3.480	-2.000	.01220	.00290	.01600	-.02240	.00000	.00000	.00960
3.480	.000	.01260	.00040	.00770	-.01660	.00000	.00000	.00900
3.480	2.000	.01240	-.00130	-.00080	-.01090	.00000	.00000	.00750
3.480	4.000	.01420	-.00390	-.00670	-.00640	.00000	.00000	.00780
3.480	6.000	.01790	-.00740	-.01020	-.00320	.00000	.00000	.00770
3.480	8.000	.02320	-.01260	-.01200	-.00230	.00000	.00000	.00740
3.480	10.000	.02990	-.01960	-.01170	-.00400	.00000	.00000	.00780
GRADIENT		.00028	-.00114	-.00378	.00264	.00000	.00000	-.00039

NSFC 370 (1A31F) (S3/2)/(Q3)/(T9)/(S3/2)

(R83510) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = 5.000 CONFID = 300.000
 DELTAZ = .140 PUDDER = .000
 X-SR9 = .000 CPBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3112/ 0 RM/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.000	.00700	.00010	.05010	-.04950	.00000	.00000	.02850
.998	-8.000	.01220	-.00460	.04320	-.04250	.00000	.00000	.02770
.998	-6.000	.01450	-.00730	.03370	-.03590	.00000	.00000	.02560
.998	-4.000	.01310	-.00940	.02960	-.02940	.00000	.00000	.02390
.998	-2.000	.01560	-.00960	.02160	-.02310	.00000	.00000	.02440
.998	.000	.01650	-.01150	.01350	-.01610	.00000	.00000	.02470
.998	2.000	.01780	-.01390	.00540	-.00910	.00000	.00000	.02450
.998	4.000	.01810	-.01500	-.00160	-.00330	.00000	.00000	.02370
.998	6.000	.01870	-.01630	-.00550	-.00010	.00000	.00000	.02670
.998	8.000	.02200	-.01990	-.00790	.00000	.00000	.00000	.02730
.998	10.000	.02740	-.02500	-.00640	-.00180	.00000	.00000	.02890
GRADIENT	.00041	-.00047	-.00383	-.00331	.00331	.00000	.00000	.00319

RUN NO. 3113/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	.01410	-.00390	.04980	-.04990	.00000	.00000	.02190
1.049	-8.000	.01840	-.00830	.04230	-.04350	.00000	.00000	.02150
1.049	-6.000	.02000	-.01040	.03500	-.03700	.00000	.00000	.02130
1.049	-4.000	.01920	-.01040	.02720	-.03010	.00000	.00000	.01990
1.049	-2.000	.01950	-.01100	.01880	-.02250	.00000	.00000	.01790
1.049	.000	.01910	-.01330	.01090	-.01540	.00000	.00000	.01630
1.049	2.000	.01970	-.01550	.00370	-.00930	.00000	.00000	.01590
1.049	4.000	.01990	-.01730	-.00270	-.00430	.00000	.00000	.01560
1.049	6.000	.02080	-.01930	-.00730	-.00120	.00000	.00000	.01900
1.049	8.000	.02290	-.02220	-.00990	-.00100	.00000	.00000	.01940
1.049	10.000	.02650	-.02670	-.00710	-.00430	.00000	.00000	.02020
GRADIENT	.00013	-.00091	-.00374	-.00324	.00324	.00000	.00000	-.00044



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TABULATED SOURCE DATA - HSFC 370

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HSFC 370 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)

(R03S10) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3114/ 0 RV/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.00510	.01370	.03950	-.03920	.00000	.00000	.03640
1.250	-8.000	-.00020	.00900	.03190	-.03350	.00000	.00000	.03650
1.250	-6.000	.00200	.00650	.04430	-.04750	.00000	.00000	.03490
1.250	-4.000	.00230	.00370	.03610	-.04080	.00000	.00000	.03260
1.250	-2.000	.00240	.00460	.02900	-.03490	.00000	.00000	.03110
1.250	.000	.00350	.00210	.02200	-.02940	.00000	.00000	.03000
1.250	2.000	.00580	-.00190	.01440	-.02350	.00000	.00000	.02920
1.250	4.000	.00770	-.00340	.00910	-.01870	.00000	.00000	.02870
1.250	6.000	.00930	-.00700	.00430	-.01650	.00000	.00000	.02930
1.250	8.000	.01030	-.01020	.00450	-.01830	.00000	.00000	.03170
1.250	10.000	.01720	-.01830	.01080	-.02490	.00000	.00000	.03330
1.250	GRADIENT	.00071	-.00143	-.00353	.00278	.00000	.00000	-.00049

RUN NO. 3097/ 0 RV/L = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.00280	.01050	.04980	-.04970	.00000	.00000	.03280
1.465	-8.000	.00730	.00600	.04350	-.04540	.00000	.00000	.03120
1.465	-6.000	.00900	.00520	.03670	-.04090	.00000	.00000	.02890
1.465	-4.000	.00480	.00800	.02950	-.03690	.00000	.00000	.02500
1.465	-2.000	.00290	.00820	.02260	-.03180	.00000	.00000	.02410
1.465	.000	.00310	.00610	.01560	-.02690	.00000	.00000	.02390
1.465	2.000	.00460	.00260	.00850	-.02160	.00000	.00000	.02440
1.465	4.000	.00320	.00040	.00470	-.01900	.00000	.00000	.02430
1.465	6.000	.00500	.00000	.00240	-.01780	.00000	.00000	.02280
1.465	8.000	.00630	-.00430	.00170	-.01760	.00000	.00000	.02600
1.465	10.000	.01230	-.00990	.00400	-.02070	.00000	.00000	.02570
1.465	GRADIENT	.00013	-.00104	-.00318	.00230	.00000	.00000	-.00006

MSFC 570 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R83S10) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFLC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTNC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3069/ 0 RIVL = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.00690	.01280	.04390	-.04130	.00000	.00000	.01350
2.990	-8.000	.00810	.01040	.03670	-.03930	.00000	.00000	.01400
2.990	-6.000	.00930	.00810	.03220	-.03440	.00000	.00000	.01430
2.990	-4.000	.00940	.00680	.02490	-.02990	.00000	.00000	.01450
2.990	-2.000	.00930	.00540	.01760	-.02490	.00000	.00000	.01360
2.990	.000	.01020	.00300	.00990	-.01990	.00000	.00000	.01170
2.990	2.000	.01140	.00040	.00290	-.01340	.00000	.00000	.01110
2.990	4.000	.01170	-.00090	-.00650	-.00790	.00000	.00000	.01150
2.990	6.000	.01390	-.00330	-.01110	-.00430	.00000	.00000	.01200
2.990	8.000	.02010	-.00940	-.01270	-.00420	.00000	.00000	.01210
2.990	10.000	.02920	-.01840	-.00950	-.00730	.00000	.00000	.01170
GRADIENT		.00033	-.00102	-.00399	.00279	.00000	.00000	-.00042

RUN NO. 3069/ 0 RIVL = 6.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.00940	.01140	.04200	-.03990	.00000	.00000	.00960
3.480	-8.000	.00980	.00970	.03610	-.03560	.00000	.00000	.01010
3.480	-6.000	.00980	.00850	.02910	-.03110	.00000	.00000	.01040
3.480	-4.000	.00900	.00900	.02260	-.02690	.00000	.00000	.01030
3.480	-2.000	.00920	.00630	.01610	-.02270	.00000	.00000	.00960
3.480	.000	.00960	.00390	.00790	-.01690	.00000	.00000	.00960
3.480	2.000	.01000	.00150	-.00090	-.01100	.00000	.00000	.00940
3.480	4.000	.01140	-.00080	-.00730	-.00650	.00000	.00000	.00970
3.480	6.000	.01430	-.00400	-.01190	-.00290	.00000	.00000	.00930
3.480	8.000	.02020	-.01010	-.01420	-.00130	.00000	.00000	.00970
3.480	10.000	.02960	-.01940	-.01240	-.00370	.00000	.00000	.00890
GRADIENT		.00028	-.00112	-.00393	.00262	.00000	.00000	-.00022



MSFC 570(1A31F)(S3/2)/(C3)/(T9)/(S3/2)

(R03S11) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFIG = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 OFSINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3117/ 0 RNL = 6.30 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	.02370	-.01270	.05090	-.04950	.00000	.00000	.03160
.898	-8.000	.02600	-.01540	.04470	-.04410	.00000	.00000	.03030
.898	-6.000	.02630	-.01630	.03950	-.03950	.00000	.00000	.02430
.898	-4.000	.02630	-.01720	.03190	-.03220	.00000	.00000	.02690
.898	-2.000	.02530	-.01740	.02440	-.02580	.00000	.00000	.02590
.898	.000	.02480	-.01800	.01670	-.01890	.00000	.00000	.02600
.898	2.000	.02320	-.01980	.00950	-.01270	.00000	.00000	.02690
.898	4.000	.02480	-.02030	.00350	-.00790	.00000	.00000	.02860
.898	6.000	.02430	-.02050	-.00070	-.00310	.00000	.00000	.03060
.898	8.000	.02370	-.02240	-.00270	-.00450	.00000	.00000	.03220
.898	10.000	.03000	-.02690	-.00250	-.00390	.00000	.00000	.03310
.898	GRADIENT	-.00015	-.00042	-.00358	.00307	.00000	.00000	.00023

RUN NO. 3116/ 0 RNL = 6.62 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	.02300	-.01140	.03440	-.05430	.00000	.00000	.02430
1.053	-8.000	.02610	-.01440	.04830	-.04910	.00000	.00000	.02320
1.053	-6.000	.02730	-.01600	.04190	-.04350	.00000	.00000	.02150
1.053	-4.000	.02600	-.01610	.03400	-.03630	.00000	.00000	.01940
1.053	-2.000	.02450	-.01620	.02620	-.02890	.00000	.00000	.01810
1.053	.000	.02380	-.01690	.01910	-.02260	.00000	.00000	.01720
1.053	2.000	.02320	-.01790	.01270	-.01770	.00000	.00000	.01720
1.053	4.000	.02290	-.01910	.00650	-.01300	.00000	.00000	.01870
1.053	6.000	.02290	-.02040	.00070	-.00890	.00000	.00000	.02090
1.053	8.000	.02350	-.02220	-.00200	-.00780	.00000	.00000	.02290
1.053	10.000	.02600	-.02360	.00010	-.01090	.00000	.00000	.02490
1.053	GRADIENT	-.00037	-.00038	-.00342	.00289	.00000	.00000	-.00012

NSFC 570 (1A31F) (S3/2) (03/1) (79) (S3/2)

(R83511) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LRFP = 3.3130 IN. YMRP = .0000 IN.
 BRFP = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFTG = 300.000
 DELTAZ = .250 RUDDER = .000
 X-SRS = .000 CRPTNC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3113/ 0 RV/L = 6.71 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	.01270	.00040	.03780	-.03790	.00000	.00000	.03950
1.250	-8.000	.01610	-.00290	.03040	-.05240	.00000	.00000	.03700
1.250	-6.000	.01810	-.00330	.04310	-.04670	.00000	.00000	.03550
1.250	-4.000	.01600	-.00440	.03670	-.04150	.00000	.00000	.03300
1.250	-2.000	.01270	-.00270	.03050	-.03620	.00000	.00000	.03140
1.250	.000	.01070	-.00250	.02370	-.03080	.00000	.00000	.02920
1.250	2.000	.01060	-.00460	.01760	-.02630	.00000	.00000	.02810
1.250	4.000	.01120	-.00710	.01260	-.02280	.00000	.00000	.02650
1.250	6.000	.01140	-.00970	.00990	-.02100	.00000	.00000	.02970
1.250	8.000	.01310	-.01160	.00970	-.02240	.00000	.00000	.03190
1.250	10.000	.01820	-.01840	.01300	-.02740	.00000	.00000	.03470
GRADIENT		-.00059	-.00036	-.00305	.00236	.00000	.00000	-.00056

RUN NO. 3096/ 0 RV/L = 6.37 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.02180	-.00560	.05240	-.05260	.00000	.00000	.03000
1.465	-8.000	.02490	-.00840	.04500	-.04920	.00000	.00000	.02960
1.465	-6.000	.02450	-.00830	.03850	-.04420	.00000	.00000	.02910
1.465	-4.000	.02190	-.00670	.03230	-.03950	.00000	.00000	.02630
1.465	-2.000	.01790	-.00410	.02350	-.03210	.00000	.00000	.02500
1.465	.000	.01370	-.00180	.01500	-.02590	.00000	.00000	.02330
1.465	2.000	.01200	-.00200	.01070	-.02250	.00000	.00000	.02400
1.465	4.000	.00990	-.00160	.00670	-.02050	.00000	.00000	.02370
1.465	6.000	.00840	-.00120	.00400	-.01900	.00000	.00000	.02290
1.465	8.000	.00960	-.00430	.00360	-.01920	.00000	.00000	.02370
1.465	10.000	.01300	-.00960	.00730	-.02320	.00000	.00000	.02430
GRADIENT		-.00150	.00062	-.00320	.00239	.00000	.00000	-.00036



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2) (G3) (T9) (S3/2)

(R03S11) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 3.000 CONFIC = 300.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 CRBINC = -.900
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3070/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	.01660	.00610	.04690	-.04350	.00000	.00000	.01340
2.990	-8.000	.01630	.00520	.04000	-.03910	.00000	.00000	.01420
2.990	-6.000	.01570	.00430	.03160	-.03340	.00000	.00000	.01460
2.990	-4.000	.01460	.00410	.02330	-.02790	.00000	.00000	.01440
2.990	-2.000	.01300	.00410	.01630	-.02330	.00000	.00000	.01290
2.990	.000	.01290	.00270	.00940	-.01960	.00000	.00000	.01140
2.990	2.000	.01360	.00220	.00140	-.01330	.00000	.00000	.01090
2.990	4.000	.01390	-.00110	-.00610	-.00790	.00000	.00000	.01140
2.990	6.000	.01540	-.00310	-.01110	-.00400	.00000	.00000	.01190
2.990	8.000	.02020	-.00800	-.01350	-.00290	.00000	.00000	.01210
2.990	10.000	.02850	-.01620	-.01320	-.00460	.00000	.00000	.01300
GRADIENT		-.00004	-.00072	-.00369	.00250	.00000	.00000	-.00040

RUN NO. 3071/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	.01910	.00330	.04210	-.03640	.00000	.00000	.00910
3.480	-8.000	.01890	.00380	.03510	-.03380	.00000	.00000	.00940
3.480	-6.000	.01840	.00250	.02730	-.02960	.00000	.00000	.00970
3.480	-4.000	.01670	.00270	.01970	-.02360	.00000	.00000	.00950
3.480	-2.000	.01490	.00290	.01310	-.01910	.00000	.00000	.00970
3.480	.000	.01400	.00180	.00560	-.01400	.00000	.00000	.00790
3.480	2.000	.01310	.00070	-.00270	-.00900	.00000	.00000	.00770
3.480	4.000	.01340	-.00090	-.00930	-.00360	.00000	.00000	.00790
3.480	6.000	.01590	-.00400	-.01250	-.00230	.00000	.00000	.00820
3.480	8.000	.02100	-.00930	-.01560	-.00010	.00000	.00000	.00830
3.480	10.000	.02900	-.01710	-.01370	-.00260	.00000	.00000	.00760
GRADIENT		-.00042	-.00045	-.00359	.00230	.00000	.00000	-.00023

MSFC 370 (IA31F) (S3/2) / (C3) / (T9) / (S3/2)

(R03S12) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = 5.000 COAFIG = 300.000
 DELTAZ = .240 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

PARAMETRIC DATA

RUN NO. 3118/ D RIVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.999	-10.000	.01900	-.00930	.03110	-.04930	.00000	.00000	.03060
.999	-6.000	.02100	-.01160	.04480	-.04360	.00000	.00000	.02940
.999	-5.000	.02180	-.01300	.03910	-.03770	.00000	.00000	.02750
.999	-4.000	.02170	-.01380	.03970	-.03110	.00000	.00000	.02550
.999	-2.000	.02070	-.01380	.02330	-.02450	.00000	.00000	.02450
.999	.000	.02030	-.01450	.01650	-.01950	.00000	.00000	.02450
.999	2.000	.02070	-.01620	.00980	-.01210	.00000	.00000	.02600
.999	4.000	.02100	-.01750	.00170	-.00650	.00000	.00000	.02740
.999	6.000	.02140	-.01830	-.00240	-.00390	.00000	.00000	.02840
.999	8.000	.02320	-.02050	-.00400	-.00350	.00000	.00000	.03100
.999	10.000	.02690	-.02460	-.00340	-.00340	.00000	.00000	.03300
GRADIENT	-.00007	-.00049	-.00049	-.00362	.00309	.00000	.00000	.00026

RUN NO. 3119/ D RIVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	.01970	-.00870	.05360	-.02290	.00000	.00000	.02230
1.048	-6.000	.02280	-.01200	.04700	-.04740	.00000	.00000	.02130
1.048	-5.000	.02380	-.01390	.04020	-.04150	.00000	.00000	.02060
1.048	-4.000	.02270	-.01400	.03230	-.03440	.00000	.00000	.01970
1.048	-2.000	.02090	-.01370	.02460	-.02710	.00000	.00000	.01840
1.048	.000	.02030	-.01460	.01740	-.02060	.00000	.00000	.01590
1.048	2.000	.01990	-.01580	.01090	-.01130	.00000	.00000	.01500
1.048	4.000	.01950	-.01680	.00480	-.01130	.00000	.00000	.01330
1.048	6.000	.02010	-.01840	-.00020	-.00790	.00000	.00000	.01780
1.048	8.000	.02180	-.02110	-.00220	-.00720	.00000	.00000	.02090
1.048	10.000	.02390	-.02440	-.00080	-.01010	.00000	.00000	.02380
GRADIENT	-.00037	-.00038	-.00038	-.00344	.00288	.00000	.00000	-.00043



MSFC 570(1A31F)(S3/2)/(O3)/(T9)/(S3/2)

(R03S12) (21 SEP 73)

REFERENCE DATA

SREF = .3720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIC = 300.000
 DELTAZ = .290 RUDDER = .090
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3120/ 0 RVL = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.249	-10.000	.00720	.00420	.05760	-.05760	.00000	.00000	.03760
1.249	-8.000	.01010	.00120	.05960	-.05230	.00000	.00000	.03660
1.249	-6.000	.01150	-.00090	.04340	-.04650	.00000	.00000	.03530
1.249	-4.000	.00970	.00920	.03610	-.04040	.00000	.00000	.03250
1.249	-2.000	.00680	.00160	.02940	-.03500	.00000	.00000	.03070
1.249	.000	.00560	.00120	.02270	-.02970	.00000	.00000	.02950
1.249	2.000	.00640	-.00140	.01630	-.02490	.00000	.00000	.02490
1.249	4.000	.00730	-.00410	.01090	-.02130	.00000	.00000	.02490
1.249	6.000	.00780	-.00600	.00750	-.01960	.00000	.00000	.02470
1.249	8.000	.00970	-.00910	.00740	-.02120	.00000	.00000	.03000
1.249	10.000	.01450	-.01540	.01230	-.02690	.00000	.00000	.03350
1.249	GRADIENT	-.00026	-.00056	-.00318	.00242	.00000	.00000	-.00046

RUN NO. 3095/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.466	-10.000	.02060	-.00430	.03190	-.05140	.00000	.00000	.03950
1.466	-8.000	.02250	-.00640	.04590	-.04730	.00000	.00000	.03910
1.466	-6.000	.02120	-.00540	.03960	-.04320	.00000	.00000	.02860
1.466	-4.000	.01780	-.00390	.03070	-.03900	.00000	.00000	.02570
1.466	-2.000	.01340	-.00030	.02230	-.03100	.00000	.00000	.02530
1.466	.000	.00920	.00200	.01450	-.02480	.00000	.00000	.02410
1.466	2.000	.00730	.00200	.00940	-.02060	.00000	.00000	.02410
1.466	4.000	.00600	.00190	.00530	-.01320	.00000	.00000	.02500
1.466	6.000	.00370	.00390	.00290	-.01830	.00000	.00000	.02290
1.466	8.000	.00590	-.00050	.00210	-.01790	.00000	.00000	.02460
1.466	10.000	.00930	-.00320	.00430	-.02030	.00000	.00000	.02790
1.466	GRADIENT	-.00149	.00059	-.00323	.00240	.00000	.00000	-.00023

MSFC 570 (1A31F) (S3/2) / (03) / (T9) / (S3/2)

(R83S12) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFIG = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBTINC = .500
 SPACER = .000 SPADTA = .000
 SPAGAP = .000

RUN NO. 3073/ 0 RWL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
2.990	-10.000	.01440	.00800	.04480	-.04170	.00000	.00000	.01320
2.990	-8.000	.01390	.00720	.03630	-.03780	.00000	.00000	.01390
2.990	-6.000	.01350	.00640	.03240	-.03230	.00000	.00000	.01430
2.990	-4.000	.01220	.00650	.02300	-.02740	.00000	.00000	.01350
2.990	-2.000	.01020	.00680	.01630	-.02310	.00000	.00000	.01180
2.990	.000	.00850	.00580	.00890	-.01810	.00000	.00000	.01100
2.990	2.000	.01050	.00290	.00110	-.01310	.00000	.00000	.01080
2.990	4.000	.01110	.00120	-.00600	-.00780	.00000	.00000	.01100
2.990	6.000	.01230	-.00030	-.01160	-.00340	.00000	.00000	.01110
2.990	8.000	.01700	-.00530	-.01400	-.00230	.00000	.00000	.01120
2.990	10.000	.02500	-.01280	-.01320	-.00450	.00000	.00000	.01200
GRADIENT		-.00010	-.00072	-.00366	.00246	.00000	.00000	-.00000

RUN NO. 3072/ 0 RWL = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	.01680	.00720	.04090	-.03740	.00000	.00000	.00900
3.480	-8.000	.01650	.00590	.03460	-.03320	.00000	.00000	.00930
3.480	-6.000	.01610	.00460	.02700	-.02810	.00000	.00000	.00970
3.480	-4.000	.01440	.00460	.01920	-.02300	.00000	.00000	.00950
3.480	-2.000	.01210	.00520	.01250	-.01960	.00000	.00000	.00810
3.480	.000	.01070	.00470	.00550	-.01400	.00000	.00000	.00730
3.480	2.000	.01010	.00340	-.00210	-.00900	.00000	.00000	.00770
3.480	4.000	.00980	.00230	-.00870	-.00470	.00000	.00000	.00790
3.480	6.000	.01240	-.00090	-.01320	-.00150	.00000	.00000	.00810
3.480	8.000	.01900	-.00690	-.01580	.00010	.00000	.00000	.00810
3.480	10.000	.02440	-.01340	-.01610	-.00070	.00000	.00000	.00770
GRADIENT		-.00036	-.00032	-.00352	.00231	.00000	.00000	-.00015



MSFC 570 (1A31F) (S3/2) / (O3) / (T9) / (S3/2)

(R03513) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CGAF10 = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRS = .000 JEBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3123/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	.02420	.00200	.04420	-.01680	.00000	.00000	.02940
.899	-8.000	.02490	.00070	.03760	-.01690	.00000	.00000	.02810
.899	-6.000	.02510	.00000	.02960	-.01430	.00000	.00000	.02610
.899	-4.000	.02410	-.00030	.02120	-.01140	.00000	.00000	.02540
.899	-2.000	.02150	-.00070	.01310	-.00890	.00000	.00000	.02640
.899	.000	.01970	-.00180	.00320	-.00640	.00000	.00000	.02710
.899	2.000	.01950	-.00330	-.00200	-.00410	.00000	.00000	.02790
.899	4.000	.01900	-.00420	-.00830	-.00240	.00000	.00000	.02890
.899	6.000	.01980	-.00500	-.01150	-.00220	.00000	.00000	.02950
.899	8.000	.02310	-.00670	-.01170	-.00300	.00000	.00000	.03080
.899	10.000	.02650	-.00940	-.01130	-.00450	.00000	.00000	.03200
GRADIENT		-.00061	-.00052	-.00370	.00113	.00000	.00000	.00042

RUN NO. 3122/ 0 RN/L = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.043	-10.000	.02590	-.01240	.04730	-.04700	.00000	.00000	.02150
1.043	-8.000	.02720	-.01440	.04030	-.04110	.00000	.00000	.02190
1.043	-6.000	.02700	-.01530	.03290	-.03470	.00000	.00000	.02190
1.043	-4.000	.02490	-.01450	.02520	-.02770	.00000	.00000	.02000
1.043	-2.000	.02220	-.01370	.01690	-.02000	.00000	.00000	.01840
1.043	.000	.02080	-.01430	.00910	-.01310	.00000	.00000	.01760
1.043	2.000	.02010	-.01550	.00230	-.00760	.00000	.00000	.01730
1.043	4.000	.01960	-.01690	-.00440	-.00250	.00000	.00000	.01790
1.043	6.000	.01990	-.01860	-.01020	.00150	.00000	.00000	.01980
1.043	8.000	.02090	-.02070	-.01250	.00210	.00000	.00000	.02340
1.043	10.000	.02210	-.02280	-.00910	-.00260	.00000	.00000	.02700
GRADIENT		-.00064	-.00033	-.00369	.00314	.00000	.00000	-.00027

WSFC 370(1A31F)(S3/2)/(Q3)/(T9)/(S3/2)

(R03S13) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BRREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 300.000
 DELTAZ = .240 RUDDER = .000
 X-SRD = .000 SPINIC = 1.000
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3121/ D RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	.01180	.00920	.03300	-.02310	.00000	.00000	.04100
1.244	-6.000	.01370	.00770	.04560	-.02340	.00000	.00000	.03970
1.244	-6.000	.01270	.00720	.03790	-.02230	.00000	.00000	.03630
1.244	-4.000	.00960	.00760	.03110	-.02070	.00000	.00000	.03670
1.244	-2.000	.00690	.00730	.02390	-.01940	.00000	.00000	.03560
1.244	.000	.00590	.00580	.01650	-.01690	.00000	.00000	.03350
1.244	2.000	.00620	.00310	.01040	-.01570	.00000	.00000	.03170
1.244	4.000	.00640	.00100	.00340	-.01310	.00000	.00000	.03160
1.244	6.000	.00730	-.00110	.00210	-.01320	.00000	.00000	.03300
1.244	8.000	.01120	-.00430	.00200	-.01630	.00000	.00000	.03560
1.244	10.000	.01740	-.00860	.00500	-.01790	.00000	.00000	.03560
1.244	GRADIENT	-.00036	-.00047	-.00324	.00071	.00000	.00000	-.00075

RUN NO. 3094/ D RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.01740	.00000	.05150	-.03030	.00000	.00000	.03270
1.465	-6.000	.01940	-.00290	.04500	-.04620	.00000	.00000	.03070
1.465	-6.000	.01910	-.00390	.03760	-.04160	.00000	.00000	.02840
1.465	-4.000	.01510	-.00080	.02940	-.03350	.00000	.00000	.02640
1.465	-2.000	.00890	.00410	.02090	-.02990	.00000	.00000	.02490
1.465	.000	.00480	.00610	.01290	-.02400	.00000	.00000	.02330
1.465	2.000	.00320	.00590	.00650	-.01960	.00000	.00000	.02560
1.465	4.000	.00210	.00510	.00300	-.01780	.00000	.00000	.02510
1.465	6.000	.00000	.00660	.00020	-.01660	.00000	.00000	.02330
1.465	8.000	.00140	.00350	.00000	-.01630	.00000	.00000	.02350
1.465	10.000	.00650	-.00290	.00110	-.01430	.00000	.00000	.02320
1.465	GRADIENT	-.00159	.00058	-.00336	.00228	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F)(S3/2)/(O3)/(T9)/(S3/2)

(R93S13) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF16 = 300.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 ORBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3074/ 0 RV/L = 4.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.01310	.01040	.04320	-.04180	.00000	.00000	.01320
2.990	-8.000	.01230	.00930	.03820	-.03740	.00000	.00000	.01370
2.990	-6.000	.01160	.00870	.03040	-.03220	.00000	.00000	.01390
2.990	-4.000	.01000	.00990	.02280	-.02740	.00000	.00000	.01260
2.990	-2.000	.00790	.00940	.01610	-.02390	.00000	.00000	.01110
2.990	.000	.00720	.00820	.00860	-.01920	.00000	.00000	.01090
2.990	2.000	.00810	.00550	.00060	-.01310	.00000	.00000	.01100
2.990	4.000	.00810	.00430	-.00670	-.00750	.00000	.00000	.01110
2.990	6.000	.00900	.00290	-.01390	-.00290	.00000	.00000	.01130
2.990	8.000	.01370	-.00200	-.01590	-.00160	.00000	.00000	.01190
2.990	10.000	.02140	-.00990	-.01500	-.00390	.00000	.00000	.01210
GRADIENT		-.00018	-.00066	-.00372	.00249	.00000	.00000	-.00015

RUN NO. 3075/ 0 RV/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.01520	.00950	.04150	-.03730	.00000	.00000	.00920
3.480	-8.000	.01430	.00840	.03430	-.03290	.00000	.00000	.00950
3.480	-6.000	.01330	.00740	.02700	-.02920	.00000	.00000	.00960
3.480	-4.000	.01200	.00710	.01990	-.02350	.00000	.00000	.00920
3.480	-2.000	.00990	.00780	.01230	-.01990	.00000	.00000	.00990
3.480	.000	.00800	.00770	.00490	-.01350	.00000	.00000	.00930
3.480	2.000	.00770	.00610	-.00240	-.00890	.00000	.00000	.00920
3.480	4.000	.00680	.00520	-.00910	-.00470	.00000	.00000	.00930
3.480	6.000	.00820	.00310	-.01440	-.00110	.00000	.00000	.00960
3.480	8.000	.01430	-.00310	-.01710	.00070	.00000	.00000	.00990
3.480	10.000	.02280	-.01190	-.01620	-.00090	.00000	.00000	.00940
GRADIENT		-.00062	-.00027	-.00362	.00236	.00000	.00000	-.00012

MSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R83514) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

PARAMETRIC DATA

ALPHA = -5.000 CONF10 = 300.000
 DELTA2 = .140 RUDDER = .000
 X-SR3 = .000 ORDING = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3124/ 0 R/V/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
.899	-10.000	-.12510	.05950	.03910	-.04230	.00000	.00000	.03450
.899	-8.000	-.10480	.04790	.03010	-.03610	.00000	.00000	.03370
.899	-6.000	-.08350	.03700	.02000	-.02950	.00000	.00000	.03300
.899	-4.000	-.06670	.02700	.01270	-.02300	.00000	.00000	.03100
.899	-2.000	-.04970	.01760	.00770	-.01930	.00000	.00000	.02900
.899	.000	-.03250	.00730	.00390	-.01610	.00000	.00000	.02750
.899	2.000	-.01590	-.00340	.00170	-.01400	.00000	.00000	.02600
.899	4.000	-.00200	-.01240	.00050	-.01290	.00000	.00000	.02560
.899	6.000	.00700	-.01770	.00260	-.01490	.00000	.00000	.02590
.899	8.000	.01130	-.01990	.00500	-.01970	.00000	.00000	.02560
.899	10.000	.01130	-.01990	.01350	-.02540	.00000	.00000	.02900
GRADIENT		.00817	-.00499	-.00152	.00129	.00000	.00000	-.00055

RUN NO. 3125/ 0 R/V/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAG
1.049	-10.000	-.13580	.05640	.04770	-.04610	.00000	.00000	.02590
1.049	-8.000	-.11330	.05290	.03910	-.03990	.00000	.00000	.02490
1.049	-6.000	-.09160	.03990	.02900	-.03330	.00000	.00000	.02400
1.049	-4.000	-.07270	.02990	.02190	-.02770	.00000	.00000	.02270
1.049	-2.000	-.05530	.01920	.01620	-.02320	.00000	.00000	.02110
1.049	.000	-.03790	.00920	.01240	-.02000	.00000	.00000	.01990
1.049	2.000	-.02130	-.00090	.00920	-.01690	.00000	.00000	.01910
1.049	4.000	-.00650	-.01050	.00450	-.01510	.00000	.00000	.01890
1.049	6.000	.00670	-.01930	.00410	-.01690	.00000	.00000	.01830
1.049	8.000	.01640	-.02490	.00490	-.01990	.00000	.00000	.01900
1.049	10.000	.01980	-.02530	.00500	-.02240	.00000	.00000	.01900
GRADIENT		.00932	-.00493	-.00213	.00159	.00000	.00000	-.00032

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TABULATED SOURCE DATA - NSFC 370

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NSFC 370 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R03S14) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3126/ 1 RVL = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	-.14030	.07160	.03940	-.04340	.00000	.00000	.03620
1.244	-8.000	-.12300	.05660	.03010	-.03610	.00000	.00000	.03720
1.244	-6.000	-.10050	.04340	.02310	-.03260	.00000	.00000	.03540
1.244	-4.000	-.07940	.03060	.01710	-.02740	.00000	.00000	.03350
1.244	-2.000	-.05970	.01740	.01310	-.02430	.00000	.00000	.03350
1.244	.000	-.03920	.00500	.01030	-.02230	.00000	.00000	.03050
1.244	2.000	-.02250	-.00500	.00730	-.02100	.00000	.00000	.02950
1.244	4.000	-.00740	-.01440	.00490	-.02120	.00000	.00000	.03170
1.244	6.000	.00690	-.02400	.00450	-.02270	.00000	.00000	.03320
1.244	8.000	.01820	-.03130	.00460	-.02390	.00000	.00000	.03260
1.244	10.000	.02490	-.03450	.00250	-.02370	.00000	.00000	.03170
1.244	GRADIENT	.00901	-.00562	-.00152	.00078	.00000	.00000	-.00056

RUN NO. 3093/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	-.14070	.07610	.04370	-.04290	.00000	.00000	.02990
1.466	-8.000	-.11630	.05990	.03710	-.03940	.00000	.00000	.02960
1.466	-6.000	-.09460	.04570	.03140	-.03660	.00000	.00000	.02730
1.466	-4.000	-.07500	.03340	.02630	-.03340	.00000	.00000	.02520
1.466	-2.000	-.05790	.02190	.02200	-.03090	.00000	.00000	.02400
1.466	.000	-.03990	.01050	.01610	-.02700	.00000	.00000	.02390
1.466	2.000	-.02430	-.00060	.00940	-.02140	.00000	.00000	.02410
1.466	4.000	-.01020	-.01140	.00420	-.01920	.00000	.00000	.02450
1.466	6.000	.00230	-.01960	.00450	-.02090	.00000	.00000	.02500
1.466	8.000	.01230	-.02510	.00900	-.02390	.00000	.00000	.02570
1.466	10.000	.01960	-.03040	.00980	-.02770	.00000	.00000	.02690
1.466	GRADIENT	.00911	-.00560	-.00289	.00189	.00000	.00000	-.00006

MSFC 570 (1A31F) (S3/2) / (Q3) / (T9) / (S3/2)

(R83S14) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COMF10 = 300.000
 DELTA2 = .140 RUDDER = .000
 X-SR3 = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3077/ 0 RM/L = 4.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
2.990	-10.000	-1.0030	.06230	.03300	-.03040	.00000	.00000	.01040
2.990	-8.000	-.09030	.04420	.02900	-.02570	.00000	.00000	.00960
2.990	-6.000	-.07850	.04540	.01890	-.01910	.00000	.00000	.00900
2.990	-4.000	-.06900	.03600	.00920	-.01200	.00000	.00000	.01030
2.990	-2.000	-.05390	.02600	-.00040	-.00310	.00000	.00000	.00930
2.990	.000	-.04310	.01490	-.00970	.00100	.00000	.00000	.00870
2.990	2.000	-.03190	.00570	-.01700	.00530	.00000	.00000	.01060
2.990	4.000	-.02450	.00070	-.02170	.00760	.00000	.00000	.01170
2.990	6.000	-.01970	-.00300	-.02340	.00770	.00000	.00000	.01240
2.990	8.000	-.01310	-.00750	-.02210	.00520	.00000	.00000	.01210
2.990	10.000	-.00670	-.01210	-.01780	.00040	.00000	.00000	.00990
	GRADIENT	.00555	-.00454	-.00392	.00249	.00000	.00000	.00021

RUN NO. 3076/ 0 RM/L = 6.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	-.09750	.06520	.03700	-.03290	.00000	.00000	.00950
3.480	-8.000	-.08760	.05690	.02930	-.02740	.00000	.00000	.00730
3.480	-6.000	-.07740	.04930	.02070	-.02120	.00000	.00000	.00790
3.480	-4.000	-.06750	.04000	.01140	-.01430	.00000	.00000	.00820
3.480	-2.000	-.05710	.03090	.00190	-.00740	.00000	.00000	.00670
3.480	.000	-.04490	.01990	-.00710	-.00070	.00000	.00000	.00730
3.480	2.000	-.03410	.01030	-.01540	.00490	.00000	.00000	.00930
3.480	4.000	-.02660	.00400	-.02110	.00640	.00000	.00000	.01050
3.480	6.000	-.02150	.00030	-.02290	.00840	.00000	.00000	.01020
3.480	8.000	-.01840	-.00190	-.02090	.00520	.00000	.00000	.00900
3.480	10.000	-.01630	-.00350	-.01600	-.00010	.00000	.00000	.00860
	GRADIENT	.00524	-.00463	-.00411	.00289	.00000	.00000	.00035



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570(1A31F)(S3/2)/(O3)/(T9)/(S3/2)

(R93S15) (21 SEP 73)

REFERENCE DATA

SREF = .3720 SQ. IN XMRP = 2.9490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONF16 = 300.000
 DELTA2 = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = .000 SPAD1A = .000
 SPAGAP = .000

RUN NO. 3129/ 0 RN/L = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.13020	.06390	.03770	-.04070	.00000	.00000	.03410
.900	-8.000	-.10860	.05210	.02860	-.03420	.00000	.00000	.03270
.900	-6.000	-.08980	.04220	.01980	-.02740	.00000	.00000	.03190
.900	-4.000	-.07260	.03280	.01180	-.02130	.00000	.00000	.03050
.900	-2.000	-.05510	.02290	.00660	-.01730	.00000	.00000	.02830
.900	.000	-.03690	.01170	.00390	-.01440	.00000	.00000	.02680
.900	2.000	-.02050	.00090	.00060	-.01220	.00000	.00000	.02570
.900	4.000	-.00700	-.00780	-.00080	-.01140	.00000	.00000	.02550
.900	6.000	.00280	-.01380	-.00070	-.01160	.00000	.00000	.02590
.900	8.000	.00800	-.01680	.00270	-.01470	.00000	.00000	.02620
.900	10.000	.00940	-.01650	.01090	-.02300	.00000	.00000	.02730
.900	GRADIENT	.00829	-.00515	-.00156	.00124	.00000	.00000	-.00053

RUN NO. 3128/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.13870	.06980	.04690	-.04460	.00000	.00000	.02370
1.048	-8.000	-.11750	.05720	.03690	-.03820	.00000	.00000	.02350
1.048	-6.000	-.09630	.04440	.02710	-.03050	.00000	.00000	.02220
1.048	-4.000	-.07720	.03340	.01860	-.02370	.00000	.00000	.02030
1.048	-2.000	-.06010	.02390	.01250	-.01870	.00000	.00000	.01920
1.048	.000	-.04310	.01380	.00670	-.01450	.00000	.00000	.01650
1.048	2.000	-.02650	.00340	.00250	-.01140	.00000	.00000	.01370
1.048	4.000	-.01140	-.00610	-.00050	-.00940	.00000	.00000	.01440
1.048	6.000	.00140	-.01450	-.00190	-.01050	.00000	.00000	.01630
1.048	8.000	.01190	-.02110	.00030	-.01550	.00000	.00000	.01620
1.048	10.000	.02000	-.02350	.00480	-.02270	.00000	.00000	.01480
1.048	GRADIENT	.00926	-.00497	-.00241	.00180	.00000	.00000	-.00096

MSFC 370 (1A31F) (S3/2) / (G3) / (T9) / (S3/2)

(R93513) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFID = 300.000
 DELTAZ = .140 TUDDER = .000
 X-SF3 = .000 JEBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAB = .000

RUN NO. 3127/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAG
1.245	-10.000	-.15570	.07760	.03640	-.04110	.00000	.00000	.03770
1.245	-8.000	-.12990	.06220	.02690	-.03320	.00000	.00000	.03700
1.245	-6.000	-.10650	.04820	.01890	-.02930	.00000	.00000	.03650
1.245	-4.000	-.08460	.03310	.01290	-.02410	.00000	.00000	.03420
1.245	-2.000	-.06370	.02210	.00900	-.02090	.00000	.00000	.03230
1.245	.000	-.04410	.00950	.00640	-.01950	.00000	.00000	.02970
1.245	2.000	-.02710	-.00050	.00440	-.01900	.00000	.00000	.02490
1.245	4.000	-.01140	-.01050	.00200	-.01910	.00000	.00000	.03130
1.245	6.000	.00400	-.02100	.00190	-.02050	.00000	.00000	.03400
1.245	8.000	.01690	-.02910	.00320	-.02290	.00000	.00000	.03320
1.245	-10.000	.02450	-.03350	-.00340	.02460	.00000	.00000	.03140
1.245	-8.000	.01690	-.02910	-.00320	.02290	.00000	.00000	.03320
1.245	-6.000	.00400	-.02100	.00340	-.02460	.00000	.00000	.03140
1.245	-4.000	.02450	-.03350	.00034	-.00245	.00000	.00000	.00314

GRADIENT

RUN NO. 3082/ 0 RN/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAG
1.467	-10.000	-.13740	.07600	.04340	-.04190	.00000	.00000	.03010
1.467	-8.000	-.11370	.05970	.03630	-.03900	.00000	.00000	.02990
1.467	-6.000	-.09350	.04650	.02920	-.03430	.00000	.00000	.02780
1.467	-4.000	-.07470	.03460	.02440	-.03140	.00000	.00000	.02630
1.467	-2.000	-.05650	.02250	.02010	-.02870	.00000	.00000	.02530
1.467	.000	-.03940	.01120	.01390	-.02480	.00000	.00000	.02440
1.467	2.000	-.02360	-.00040	.00640	-.01970	.00000	.00000	.02340
1.467	4.000	-.01000	-.01040	.00240	-.01800	.00000	.00000	.02290
1.467	6.000	.00210	-.01810	.00270	-.02000	.00000	.00000	.02460
1.467	8.000	.01350	-.02600	.00490	-.02330	.00000	.00000	.02670
1.467	10.000	.02290	-.03410	.01050	-.03030	.00000	.00000	.02620
1.467	GRADIENT	.00911	-.00554	-.00289	.00179	.00000	.00000	-.00044



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2) / (G3) / (T9) / (S3/2)

(R33S15) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SR3 = .900 CRBINC = .500
 SPACER = .900 SPADIA = .900
 SPAGAP = .000

RUN NO. 3078/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
2.990	-10.000	-1.0360	.0630	.03470	-.02930	.00000	.00000	.01120
2.990	-8.000	-.09420	.05840	.02670	-.02410	.00000	.00000	.00890
2.990	-6.000	-.08390	.04970	.01770	-.01770	.00000	.00000	.00910
2.990	-4.000	-.07250	.04030	.00720	-.01020	.00000	.00000	.00910
2.990	-2.000	-.06020	.02990	-.00300	-.00290	.00000	.00000	.00940
2.990	.000	-.04700	.01870	-.01170	.00290	.00000	.00000	.00910
2.990	2.000	-.03600	.00950	-.01910	.00730	.00000	.00000	.01050
2.990	4.000	-.02780	.00350	-.02380	.00980	.00000	.00000	.01160
2.990	6.000	-.02170	-.00050	-.02500	.00940	.00000	.00000	.01210
2.990	8.000	-.01730	-.00410	-.02350	.00540	.00000	.00000	.01130
2.990	10.000	-.01410	-.00820	-.01970	.00140	.00000	.00000	.00950
2.990	GRADIENT	.00569	-.00470	-.00390	.00250	.00000	.00000	.00036

RUN NO. 3079/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAS
3.480	-10.000	-1.10120	.06940	.03680	-.03190	.00000	.00000	.00870
3.480	-8.000	-.09150	.06110	.02920	-.02680	.00000	.00000	.00760
3.480	-6.000	-.08150	.05230	.02020	-.02040	.00000	.00000	.00780
3.480	-4.000	-.07160	.04410	.01060	-.01320	.00000	.00000	.00770
3.480	-2.000	-.06190	.03550	.00030	-.00560	.00000	.00000	.00650
3.480	.000	-.04990	.02460	-.00920	.00100	.00000	.00000	.00690
3.480	2.000	-.03870	.01450	-.01740	.00680	.00000	.00000	.00750
3.490	4.000	-.03030	.00750	-.02310	.01050	.00000	.00000	.00890
3.490	6.000	-.02590	.00420	-.02430	.01000	.00000	.00000	.00980
3.490	8.000	-.02420	.00310	-.02210	.00640	.00000	.00000	.00980
3.490	10.000	-.02250	.00130	-.01790	.00130	.00000	.00000	.00740
3.490	GRADIENT	.00527	-.00471	-.00425	.00299	.00000	.00000	.00017

MSFC 570 (1A31F) (S3/2)/(031)/(09)/(03/2)

(R03516) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -.5.000 CORFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 JCBTHC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3130/ 0 RVL = 6.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.897	-10.000	-.12290	.06120	.04060	-.04130	.00000	.00000	.03370
.897	-8.000	-.10400	.05140	.03190	-.03300	.00000	.00000	.03200
.897	-6.000	-.08670	.04290	.02260	-.02810	.00000	.00000	.03040
.897	-4.000	-.06990	.03370	.01490	-.02200	.00000	.00000	.02950
.897	-2.000	-.05330	.02400	.00950	-.01900	.00000	.00000	.02790
.897	.000	-.03730	.01360	.00300	-.01120	.00000	.00000	.02510
.897	2.000	-.02170	.00310	.00330	-.01290	.00000	.00000	.02440
.897	4.000	-.00900	-.00490	.00120	-.01170	.00000	.00000	.02420
.897	6.000	.00000	-.01010	.00050	-.01140	.00000	.00000	.02550
.897	8.000	.00530	-.01300	.00330	-.01400	.00000	.00000	.02690
.897	10.000	.00560	-.01290	.01120	-.02200	.00000	.00000	.02800
GRADIENT		.00767	-.00490	-.00167	.00129	.00000	.00000	-.00072

RUN NO. 3131/ 1 RVL = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.050	-10.000	-.13650	.07250	.04460	-.04170	.00000	.00000	.02790
1.050	-8.000	-.11750	.06030	.03630	-.03500	.00000	.00000	.02370
1.050	-6.000	-.09630	.04780	.02800	-.02970	.00000	.00000	.02350
1.050	-4.000	-.07690	.03670	.02150	-.02440	.00000	.00000	.02090
1.050	-2.000	-.05930	.02690	.01600	-.01990	.00000	.00000	.01940
1.050	.000	-.04200	.01650	.01150	-.01590	.00000	.00000	.01730
1.050	2.000	-.02520	.00560	.00710	-.01270	.00000	.00000	.01510
1.050	4.000	-.01100	-.00370	.00380	-.01110	.00000	.00000	.01490
1.050	6.000	.00020	-.01090	.00330	-.01290	.00000	.00000	.01550
1.050	8.000	.00940	-.01620	.00600	-.01900	.00000	.00000	.01500
1.050	10.000	.01650	-.01970	.01260	-.02500	.00000	.00000	.01260
GRADIENT		.00929	-.00510	-.00222	.00169	.00000	.00000	-.00092

NSFC 570 (1A31F) (S3/2) / (G3) / (T9) / (S3/2)

(R33S16) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3132/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.243	-10.000	-.15190	.07770	.03700	-.03950	.00000	.00000	.03670
1.243	-9.000	-.12760	.06350	.02820	-.03390	.00000	.00000	.03790
1.243	-8.000	-.10330	.05940	.02130	-.02930	.00000	.00000	.03690
1.243	-7.000	-.08410	.03780	.01550	-.02390	.00000	.00000	.03410
1.243	-6.000	-.06320	.02490	.01090	-.02030	.00000	.00000	.03150
1.243	-5.000	-.04360	.01210	.00730	-.01400	.00000	.00000	.02910
1.243	-4.000	-.02660	.00150	.00520	-.01740	.00000	.00000	.02910
1.243	-3.000	-.01110	-.00920	.00500	-.01890	.00000	.00000	.03210
1.243	-2.000	.00180	-.01670	.00590	-.02160	.00000	.00000	.03350
1.243	-1.000	.01230	-.02340	.00770	-.02490	.00000	.00000	.03230
1.243	0.000	.02290	-.03050	.01010	-.02800	.00000	.00000	.03110
1.243	1.000	.00913	-.00576	-.00133	.00966	.00000	.00000	-.00032

RUN NO. 3091/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.468	-10.000	-.14650	.08260	.04070	-.03830	.00000	.00000	.03240
1.468	-9.000	-.12430	.06770	.03320	-.03440	.00000	.00000	.03020
1.468	-8.000	-.10330	.05390	.02640	-.03060	.00000	.00000	.02930
1.468	-7.000	-.08440	.04170	.01990	-.02690	.00000	.00000	.02760
1.468	-6.000	-.06670	.03040	.01340	-.02320	.00000	.00000	.02510
1.468	-5.000	-.04890	.01820	.00770	-.01990	.00000	.00000	.02260
1.468	-4.000	-.03110	.00500	.00130	-.01540	.00000	.00000	.02290
1.468	-3.000	-.01690	-.00320	-.00340	-.01260	.00000	.00000	.02440
1.468	-2.000	-.00590	-.01240	-.00430	-.01340	.00000	.00000	.02430
1.468	-1.000	.00520	-.02020	-.00220	-.01710	.00000	.00000	.02370
1.468	0.000	.01710	-.03100	.00190	-.02330	.00000	.00000	.02410
1.468	1.000	.00854	-.00596	-.00292	.00191	.00000	.00000	-.00043

MSFC 570 (1A31F) (S3/2) / (03) / (79) / (S3/2)

(R03518) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CMAF10 = 300.000
 DELTAZ = .140 TUDDER = .000
 X-SEP = .000 DRGINC = 1.000
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3081/ 0 RWL = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10210	.06730	.03700	-.03110	.00000	.00000	.01210
2.990	-8.000	-.09310	.05970	.02990	-.02360	.00000	.00000	.01020
2.990	-6.000	-.08310	.05100	.01910	-.01960	.00000	.00000	.00960
2.990	-4.000	-.07230	.04180	.00990	-.01110	.00000	.00000	.00930
2.990	-2.000	-.06030	.03140	-.00190	-.00330	.00000	.00000	.00940
2.990	.000	-.04760	.02040	-.01130	.00290	.00000	.00000	.00750
2.990	2.000	-.03620	.01070	-.01850	.00730	.00000	.00000	.01010
2.990	4.000	-.02780	.00410	-.02320	.00960	.00000	.00000	.01290
2.990	6.000	-.02310	.00090	-.02440	.00910	.00000	.00000	.01280
2.990	8.000	-.02090	-.00030	-.02250	.00590	.00000	.00000	.01160
2.990	10.000	-.02020	-.00120	-.01790	.00000	.00000	.00000	.00950
2.990	GRADIENT	.00356	-.00480	-.00403	.00260	.00000	.00000	.00044

RUN NO. 3080/ 0 RWL = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09860	.06960	.03920	-.03280	.00000	.00000	.00950
3.480	-8.000	-.08990	.06200	.03030	-.02750	.00000	.00000	.00850
3.480	-6.000	-.08040	.05360	.02110	-.02100	.00000	.00000	.00790
3.480	-4.000	-.07110	.04540	.01090	-.01330	.00000	.00000	.00780
3.480	-2.000	-.06090	.03650	.00090	-.00590	.00000	.00000	.00740
3.480	.000	-.04990	.02620	-.00990	.00100	.00000	.00000	.00650
3.480	2.000	-.03910	.01620	-.01720	.00690	.00000	.00000	.00910
3.480	4.000	-.03100	.00920	-.02230	.00990	.00000	.00000	.01010
3.480	6.000	-.02720	.00550	-.02390	.00930	.00000	.00000	.01040
3.480	8.000	-.02590	.00350	-.02110	.00560	.00000	.00000	.00920
3.480	10.000	-.02450	.00370	-.01620	.00000	.00000	.00000	.00730
3.480	GRADIENT	.00310	-.00464	-.00422	.00295	.00000	.00000	.00015

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(O3)/(T9)/(S3/2)

(R03S17) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -3.000 COARFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SF9 = .000 CRSTIC = -.000
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3133/ 0 RN/L = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.11390	.05210	.04250	-.04310	.00000	.00000	.03450
.899	-9.000	-.09550	.04310	.03320	-.03990	.00000	.00000	.03340
.899	-8.000	-.07910	.03390	.02400	-.03170	.00000	.00000	.03290
.899	-7.000	-.06360	.02350	.01570	-.02310	.00000	.00000	.03030
.899	-6.000	-.04860	.01760	.00930	-.02030	.00000	.00000	.02950
.899	-5.000	-.03310	.00910	.00300	-.01700	.00000	.00000	.02930
.899	-4.000	-.01770	.00190	.00140	-.01430	.00000	.00000	.02660
.899	-3.000	-.00490	.00000	-.00070	-.01260	.00000	.00000	.02590
.899	-2.000	.00360	-.01310	-.00110	-.01200	.00000	.00000	.02570
.899	-1.000	.00780	-.01740	.00160	-.01440	.00000	.00000	.02710
.899	0.000	.00770	-.01670	.00990	-.02190	.00000	.00000	.02790
.899	10.000	.00742	-.00452	-.00204	.00155	.00000	.00000	-.00053
	GRADIENT							

RUN NO. 3134/ 0 RN/L = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.12810	.06200	.05020	-.04820	.00000	.00000	.02590
1.048	-9.000	-.10740	.04920	.04100	-.04220	.00000	.00000	.02570
1.048	-8.000	-.08770	.03730	.03160	-.03510	.00000	.00000	.02350
1.048	-7.000	-.06990	.02730	.02320	-.02810	.00000	.00000	.02150
1.048	-6.000	-.05390	.01860	.01690	-.02320	.00000	.00000	.02090
1.048	-5.000	-.03850	.01020	.01220	-.01930	.00000	.00000	.01870
1.048	-4.000	-.02330	.00110	.00740	-.01560	.00000	.00000	.01520
1.048	-3.000	-.00990	-.00750	.00270	-.01320	.00000	.00000	.01600
1.048	-2.000	.00190	-.01310	.00050	-.01340	.00000	.00000	.01810
1.048	-1.000	.01230	-.02150	.00140	-.01670	.00000	.00000	.01750
1.048	0.000	.01990	-.02570	.00300	-.02300	.00000	.00000	.01820
1.048	10.000	.00754	-.00435	-.00252	.00187	.00000	.00000	-.00093
	GRADIENT							

MSFC 570 (IASIF) (S3/2)/(G3)/(T9)/(S3/2)

(R83517) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COMFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SEB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3133/ 0 RIN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.14030	.06710	.04360	-.04740	.00000	.00000	.03750
1.246	-8.000	-.11530	.05130	.03400	-.04120	.00000	.00000	.03690
1.246	-6.000	-.09440	.03920	.02620	-.03510	.00000	.00000	.03590
1.246	-4.000	-.07650	.02920	.01970	-.02990	.00000	.00000	.03490
1.246	-2.000	-.05810	.01830	.01540	-.02570	.00000	.00000	.03370
1.246	.000	-.04020	.00710	.01230	-.02440	.00000	.00000	.03090
1.246	2.000	-.02430	-.00240	.00420	-.02260	.00000	.00000	.02900
1.246	4.000	-.01060	-.01100	.00440	-.02130	.00000	.00000	.02940
1.246	6.000	.00170	-.01470	.00370	-.02240	.00000	.00000	.03350
1.246	8.000	.01200	-.02460	.00520	-.02340	.00000	.00000	.03540
1.246	10.000	.01920	-.02960	.00650	-.02800	.00000	.00000	.03350
	GRADIENT	.00927	-.00505	-.00199	.00106	.00000	.00000	-.00043

RUN NO. 3090/ 0 RIN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	-.13330	.07170	.04810	-.04570	.00000	.00000	.03000
1.466	-8.000	-.11140	.05710	.03960	-.04000	.00000	.00000	.02900
1.466	-6.000	-.09070	.04330	.03210	-.03630	.00000	.00000	.02760
1.466	-4.000	-.07220	.03140	.02570	-.03220	.00000	.00000	.02530
1.466	-2.000	-.05540	.02060	.02120	-.02930	.00000	.00000	.02440
1.466	.000	-.03980	.01070	.01520	-.02340	.00000	.00000	.02360
1.466	2.000	-.02410	-.00030	.00790	-.02050	.00000	.00000	.02450
1.466	4.000	-.01020	-.01090	.00270	-.01760	.00000	.00000	.02590
1.466	6.000	-.00110	-.01610	.00130	-.01900	.00000	.00000	.02620
1.466	8.000	.00580	-.01870	.00400	-.02200	.00000	.00000	.02690
1.466	10.000	.01510	-.02590	.01090	-.03010	.00000	.00000	.02960
	GRADIENT	.00776	-.00327	-.00297	.00190	.00000	.00000	.00006



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)

(R33517) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAF1G = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3062/ 0 RV/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.09630	.06380	.04330	-.03820	.00000	.00000	.01090
2.990	-8.000	-.08750	.05630	.03510	-.03160	.00000	.00000	.00950
2.990	-6.000	-.07740	.04790	.02510	-.02440	.00000	.00000	.00930
2.990	-4.000	-.06730	.03950	.01470	-.01670	.00000	.00000	.00920
2.990	-2.000	-.05690	.03040	.00390	-.00890	.00000	.00000	.00920
2.990	.000	-.04550	.02020	-.00550	-.00270	.00000	.00000	.00920
2.990	2.000	-.03320	.00950	-.01220	.00130	.00000	.00000	.01040
2.990	4.000	-.02340	.00150	-.01790	.00460	.00000	.00000	.01230
2.990	6.000	-.01930	-.00110	-.02140	.00630	.00000	.00000	.01290
2.990	8.000	-.01800	-.00160	-.02110	.00490	.00000	.00000	.01200
2.990	10.000	-.01600	-.00320	-.01610	-.00090	.00000	.00000	.00960
2.990	GRADIENT	.00558	-.00484	-.00403	.00263	.00000	.00000	.00042

RUN NO. 3083/ 0 RV/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09170	.06330	.04330	-.03830	.00000	.00000	.01020
3.480	-8.000	-.08300	.05590	.03490	-.03210	.00000	.00000	.00990
3.480	-6.000	-.07400	.04800	.02550	-.02510	.00000	.00000	.00940
3.480	-4.000	-.06550	.04050	.01500	-.01720	.00000	.00000	.00890
3.480	-2.000	-.05630	.03270	.00470	-.00930	.00000	.00000	.00750
3.480	.000	-.04630	.02390	-.00450	-.00280	.00000	.00000	.00790
3.480	2.000	-.03620	.01440	-.01260	.00240	.00000	.00000	.00950
3.480	4.000	-.02730	.00660	-.01790	.00590	.00000	.00000	.01010
3.480	6.000	-.02300	.00350	-.02080	.00710	.00000	.00000	.01020
3.480	8.000	-.02220	.00300	-.02070	.00570	.00000	.00000	.00970
3.480	10.000	-.02130	.00140	-.01590	.00000	.00000	.00000	.00790
3.480	GRADIENT	.00482	-.00430	-.00415	.00299	.00000	.00000	.00022

MSFC 570 (1A31F) (S3/2) (G3) (T9) (S3/2)

(R83S18) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-S69 = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3136/ 0 RN/L = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	-.11450	.03370	.04100	-.04290	.00000	.00000	.03420
.898	-8.000	-.09700	.04460	.03170	-.03610	.00000	.00000	.03270
.898	-6.000	-.08180	.03700	.02290	-.02980	.00000	.00000	.03180
.898	-4.000	-.06670	.02900	.01450	-.02330	.00000	.00000	.03090
.898	-2.000	-.05150	.02090	.00830	-.01860	.00000	.00000	.02930
.898	.000	-.03640	.01160	.00380	-.01530	.00000	.00000	.02780
.898	2.000	-.02130	.00160	.00230	-.01260	.00000	.00000	.02620
.898	4.000	-.00880	.00640	-.00120	-.01140	.00000	.00000	.02560
.898	6.000	.00100	.01210	-.00210	-.01090	.00000	.00000	.02510
.898	8.000	.00600	.01500	-.00320	-.01280	.00000	.00000	.02550
.898	10.000	.00330	.01350	.00760	-.01970	.00000	.00000	.02780
GRADIENT		.00732	-.00450	-.00197	.00149	.00000	.00000	-.00067

RUN NO. 3137/ 1 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.12730	.06400	.04840	-.04530	.00000	.00000	.02770
1.049	-8.000	-.10710	.05210	.04000	-.03940	.00000	.00000	.02650
1.049	-6.000	-.08670	.04010	.03240	-.03360	.00000	.00000	.02330
1.049	-4.000	-.06930	.03040	.02480	-.02730	.00000	.00000	.02090
1.049	-2.000	-.05320	.02170	.01960	-.02290	.00000	.00000	.01920
1.049	.000	-.03730	.01260	.01500	-.01900	.00000	.00000	.01750
1.049	2.000	-.02240	.00330	.01030	-.01530	.00000	.00000	.01580
1.049	4.000	-.00890	.00540	.00690	-.01370	.00000	.00000	.01630
1.049	6.000	.00180	.01220	.00580	-.01300	.00000	.00000	.01730
1.049	8.000	.00990	.01670	.00740	-.01880	.00000	.00000	.01690
1.049	10.000	.01570	.01930	.01210	-.02330	.00000	.00000	.01570
GRADIENT		.00758	-.00450	-.00225	.00176	.00000	.00000	-.00063



MSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R93S19) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SF9 = .000 CEBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3138/ 0 RVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.14300	.06990	.04270	-.04570	.00000	.00000	.03770
1.246	-8.000	-.11900	.03490	.03260	-.03920	.00000	.00000	.03710
1.246	-6.000	-.09780	.04240	.02480	-.03310	.00000	.00000	.03640
1.246	-4.000	-.07950	.03200	.01790	-.02740	.00000	.00000	.03450
1.246	-2.000	-.06120	.02100	.01220	-.02340	.00000	.00000	.03290
1.246	.000	-.04330	.00990	.00810	-.02060	.00000	.00000	.03010
1.246	2.000	-.02770	.00030	.00430	-.01990	.00000	.00000	.02810
1.246	4.000	-.01390	-.00810	.00110	-.01790	.00000	.00000	.02990
1.246	6.000	-.00120	-.01610	.00090	-.01960	.00000	.00000	.03310
1.246	8.000	.00930	-.02250	.00270	-.02310	.00000	.00000	.03490
1.246	10.000	.01690	-.02680	.00270	-.02470	.00000	.00000	.03450
1.246	GRADIENT	.00923	-.00504	-.00206	.00119	.00000	.00000	-.00071

RUN NO. 3089/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	-.13080	.07090	.04640	-.04410	.00000	.00000	.03080
1.467	-8.000	-.10830	.03620	.03920	-.04010	.00000	.00000	.02970
1.467	-6.000	-.08900	.04350	.03140	-.03350	.00000	.00000	.02910
1.467	-4.000	-.07120	.03200	.02450	-.03110	.00000	.00000	.02670
1.467	-2.000	-.05500	.02150	.01920	-.02790	.00000	.00000	.02450
1.467	.000	-.03920	.01110	.01310	-.02390	.00000	.00000	.02340
1.467	2.000	-.02420	.00090	.00670	-.01970	.00000	.00000	.02340
1.467	4.000	-.01100	-.00940	.00210	-.01730	.00000	.00000	.02400
1.467	6.000	-.00180	-.01390	.00030	-.01770	.00000	.00000	.02350
1.467	8.000	.00330	-.01760	.00240	-.02190	.00000	.00000	.02790
1.467	10.000	.01690	-.02670	.00990	-.03010	.00000	.00000	.02960
1.467	GRADIENT	.00756	-.00507	-.00296	.00179	.00000	.00000	-.00033

MSFC 370 (1A31F) (S3/2) / (G3) / (T9) / (S3/2)

(R93518) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COARFV = 300.000
DELTAZ = .140 RUDDER = .000
X-SRS = .000 GRDINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3083/ 0 RIVL = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10280	.06640	.04320	-.03700	.00000	.00000	.01180
2.990	-8.000	-.09490	.06190	.03420	-.03050	.00000	.00000	.01000
2.990	-6.000	-.08360	.03390	.02370	-.02270	.00000	.00000	.00970
2.990	-4.000	-.07370	.04550	.01200	-.01410	.00000	.00000	.00900
2.990	-2.000	-.06450	.03590	.00990	-.00590	.00000	.00000	.00770
2.990	.000	-.05260	.02540	-.00920	.00380	.00000	.00000	.00920
2.990	2.000	-.04050	.01460	-.01120	.00360	.00000	.00000	.01140
2.990	4.000	-.03060	.00650	-.02210	.00650	.00000	.00000	.01220
2.990	6.000	-.02340	.00270	-.02450	.00920	.00000	.00000	.01250
2.990	8.000	-.02330	.00120	-.02400	.00690	.00000	.00000	.01190
2.990	10.000	-.02260	.00030	-.01460	.00080	.00000	.00000	.00930
GRADIENT		.00571	-.00496	-.00431	.00253	.00000	.00000	.00051

RUN NO. 3084/ 0 RIVL = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09910	.06950	.04250	-.03740	.00000	.00000	.00970
3.480	-8.000	-.09070	.06210	.03400	-.03140	.00000	.00000	.00930
3.480	-6.000	-.08150	.05400	.02450	-.02430	.00000	.00000	.00790
3.480	-4.000	-.07230	.04610	.01390	-.01610	.00000	.00000	.00820
3.480	-2.000	-.06370	.03860	.00230	-.00730	.00000	.00000	.00780
3.480	.000	-.05400	.02990	-.00750	.00030	.00000	.00000	.00800
3.480	2.000	-.04310	.01990	-.01590	.00320	.00000	.00000	.00920
3.480	4.000	-.03390	.01160	-.02120	.00860	.00000	.00000	.00990
3.480	6.000	-.02920	.00900	-.02260	.00870	.00000	.00000	.01010
3.480	8.000	-.02810	.00750	-.02110	.00570	.00000	.00000	.00340
3.480	10.000	-.02820	.00790	-.01670	-.00040	.00000	.00000	.00730
GRADIENT		.00487	-.00439	-.00440	.00309	.00000	.00000	.00024



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(03)/(T9)/(S3/2)

(R03S19) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 SCALFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SR5 = .000 GRPINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3141/ 0 RN/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.898	-10.000	-.11720	.05750	.04000	-.04100	.00000	.00000	.03300
.898	-8.000	-.09980	.04880	.03210	-.03560	.00000	.00000	.03140
.898	-6.000	-.08260	.04000	.02390	-.02900	.00000	.00000	.03090
.898	-4.000	-.06610	.03140	.01590	-.02260	.00000	.00000	.03040
.898	-2.000	-.05110	.02300	.01020	-.01940	.00000	.00000	.02990
.898	.000	-.03590	.01340	.00640	-.01520	.00000	.00000	.02700
.898	2.000	-.02140	.00380	.00320	-.01260	.00000	.00000	.02530
.898	4.000	-.00930	-.00390	.00150	-.01180	.00000	.00000	.02510
.898	6.000	-.00050	-.00900	.00070	-.01170	.00000	.00000	.02590
.898	8.000	.00390	-.01150	.00210	-.01320	.00000	.00000	.02660
.898	10.000	.00310	-.01000	.00920	-.01490	.00000	.00000	.02840
GRADIENT	.00716	.00716	-.00449	-.00178	.00137	.00000	.00000	-.00071

RUN NO. 3140/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.048	-10.000	-.12880	.06620	.04820	-.04310	.00000	.00000	.02350
1.048	-8.000	-.10920	.05490	.03910	-.03960	.00000	.00000	.02140
1.048	-6.000	-.08970	.04340	.03110	-.03240	.00000	.00000	.01990
1.048	-4.000	-.07230	.03340	.02320	-.02600	.00000	.00000	.01840
1.048	-2.000	-.05630	.02490	.01720	-.02090	.00000	.00000	.01630
1.048	.000	-.04060	.01580	.01240	-.01650	.00000	.00000	.01390
1.048	2.000	-.02570	.00620	.00750	-.01250	.00000	.00000	.01180
1.048	4.000	-.01250	-.00240	.00350	-.01070	.00000	.00000	.01310
1.048	6.000	-.00190	-.00990	.00210	-.01180	.00000	.00000	.01500
1.048	8.000	.00650	-.01350	.00350	-.01550	.00000	.00000	.01460
1.048	10.000	.01400	-.01750	.00710	-.02230	.00000	.00000	.01440
GRADIENT	.00731	.00731	-.00451	-.00245	.00195	.00000	.00000	-.00075

MSFC 370 (1A31F) (S3/2)/(C3)/(T9)/(S3/2)

(R83S19) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFTG = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRGINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3139/ 0 RNVL = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-1.14630	.07460	.04080	-.04230	.00000	.00000	.03830
1.245	-8.000	-.12090	.05910	.03260	-.03730	.00000	.00000	.03690
1.245	-6.000	-.09920	.04660	.02530	-.03190	.00000	.00000	.03550
1.245	-4.000	-.08060	.03510	.01950	-.02610	.00000	.00000	.03440
1.245	-2.000	-.06130	.02460	.01410	-.02250	.00000	.00000	.03190
1.245	.000	-.04390	.01320	.01030	-.01970	.00000	.00000	.02920
1.245	2.000	-.02690	.00320	.00720	-.01900	.00000	.00000	.02410
1.245	4.000	-.01270	-.00570	.00500	-.01800	.00000	.00000	.03070
1.245	6.000	-.00140	-.01290	.00490	-.02010	.00000	.00000	.03350
1.245	8.000	.00750	-.01790	.00790	-.02440	.00000	.00000	.03390
1.245	10.000	.01510	-.02190	.01150	-.02920	.00000	.00000	.03390
GRADIENT		.00951	-.00525	-.00169	.00104	.00000	.00000	-.00055

RUN NO. 3068/ 0 RNVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	-.14100	.07860	.04590	-.04220	.00000	.00000	.03190
1.466	-8.000	-.11910	.06390	.03690	-.03690	.00000	.00000	.03090
1.466	-6.000	-.09910	.05060	.02940	-.03190	.00000	.00000	.02990
1.466	-4.000	-.08120	.03920	.02110	-.02690	.00000	.00000	.02750
1.466	-2.000	-.06450	.02870	.01440	-.02250	.00000	.00000	.02550
1.466	.000	-.04800	.01740	.00700	-.01930	.00000	.00000	.02330
1.466	2.000	-.03200	.00500	.00000	-.01350	.00000	.00000	.02360
1.466	4.000	-.01830	-.00490	-.00410	-.01090	.00000	.00000	.02550
1.466	6.000	-.00870	-.00990	-.00320	-.01210	.00000	.00000	.02640
1.466	8.000	-.00090	-.01400	-.00320	-.01620	.00000	.00000	.02710
1.466	10.000	.00950	-.02210	.00190	-.02330	.00000	.00000	.02490
GRADIENT		.00791	-.00559	-.00324	.00205	.00000	.00000	-.00029



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2)

(R35S19) (21 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 300.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3086/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10010	.06830	.04460	-.03810	.00000	.00000	.01210
2.990	-8.000	-.09290	.06230	.03470	-.03090	.00000	.00000	.01030
2.990	-6.000	-.08450	.05490	.02400	-.02310	.00000	.00000	.01030
2.990	-4.000	-.07450	.04610	.01230	-.01470	.00000	.00000	.00950
2.990	-2.000	-.06320	.03650	.00140	-.00650	.00000	.00000	.00950
2.990	.000	-.05110	.02570	-.00790	-.00010	.00000	.00000	.00950
2.990	2.000	-.03930	.01480	-.01600	.00480	.00000	.00000	.00950
2.990	4.000	-.03030	.00700	-.02190	.00920	.00000	.00000	.01150
2.990	6.000	-.02560	.00390	-.02400	.00840	.00000	.00000	.01290
2.990	8.000	-.02410	.00330	-.02180	.00510	.00000	.00000	.01310
2.990	10.000	-.02560	.00450	-.01570	-.00150	.00000	.00000	.01220
GRADIENT		.00562	-.00499	-.00431	.00285	.00000	.00000	.00900

RUN NO. 3087/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09760	.06990	.04360	-.03800	.00000	.00000	.00940
3.480	-8.000	-.08940	.06280	.03320	-.03170	.00000	.00000	.00900
3.480	-6.000	-.08070	.05490	.02340	-.02460	.00000	.00000	.00900
3.480	-4.000	-.07150	.04670	.01440	-.01620	.00000	.00000	.00900
3.480	-2.000	-.06260	.03910	.00320	-.00780	.00000	.00000	.00930
3.480	.000	-.05280	.03020	-.00650	-.00090	.00000	.00000	.00940
3.480	2.000	-.04270	.02050	-.01510	.00480	.00000	.00000	.00950
3.480	4.000	-.03430	.01290	-.02090	.00840	.00000	.00000	.00970
3.480	6.000	-.03010	.00970	-.02240	.00840	.00000	.00000	.01000
3.480	8.000	-.02930	.00960	-.02000	.00490	.00000	.00000	.00960
3.480	10.000	-.03000	.01030	-.01380	-.00230	.00000	.00000	.00730
GRADIENT		.00471	-.00432	-.00444	.00309	.00000	.00000	.00009

MSFC 570 (TA31F) (S3/2) (G3) (T9) (U5) (S3/2)

(RMS2D) (14 SEP 73)

REFERENCE DATA

SREF = .9729 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .500 COEFFIC = 301.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CFBINC = -.500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 3165/ D RN/L = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.596	-10.000	-.03710	-.01860	-.02910	-.00200	.00000	.00000	.03450
.596	-8.000	-.04430	-.01340	-.00620	-.00390	.00000	.00000	.03190
.596	-6.000	-.03160	-.01310	.01060	-.00310	.00000	.00000	.03000
.596	-5.000	-.02510	-.01290	.01400	-.00460	.00000	.00000	.03030
.596	-4.000	-.01920	-.01230	.01790	-.00510	.00000	.00000	.03030
.596	-2.000	-.00890	-.01030	.02490	-.00910	.00000	.00000	.02990
.596	.000	-.00110	-.00800	.02320	-.01020	.00000	.00000	.02970
.596	2.000	.00560	-.00370	.02400	-.01060	.00000	.00000	.02900
.596	4.000	.01340	-.00470	.01990	-.00850	.00000	.00000	.02820
.596	5.000	.01730	-.00370	.01760	-.00730	.00000	.00000	.03070
.596	6.000	.02160	-.00270	.01480	-.00630	.00000	.00000	.03140
.596	8.000	.03070	-.00010	.00300	-.00310	.00000	.00000	.03070
.596	10.000	.03980	.00290	-.01410	-.00130	.00000	.00000	.03230
GRADIENT		.00413	.00095	.00022	-.00037	.00000	.00000	-.00005

RUN NO. 3164/ D RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.06850	-.02110	-.05810	-.01390	.00000	.00000	.03260
.900	-8.000	-.05410	-.01640	-.03230	-.01280	.00000	.00000	.03060
.900	-6.000	-.04190	-.01270	-.01280	-.01030	.00000	.00000	.03030
.900	-5.000	-.03310	-.01220	-.00930	-.00780	.00000	.00000	.03100
.900	-4.000	-.02880	-.01170	-.00260	-.00670	.00000	.00000	.03000
.900	-2.000	-.01780	-.01030	.00970	-.00740	.00000	.00000	.02710
.900	.000	-.00970	-.00770	.01790	-.00970	.00000	.00000	.02910
.900	2.000	-.00020	-.00460	.02450	-.01210	.00000	.00000	.03020
.900	4.000	.00960	-.00410	.01920	-.01060	.00000	.00000	.03000
.900	5.000	.01920	-.00350	.01390	-.00960	.00000	.00000	.03010
.900	6.000	.02950	-.00290	.00980	-.00900	.00000	.00000	.03020
.900	8.000	.03040	-.00170	-.00330	-.00890	.00000	.00000	.03090
.900	10.000	.04270	.00000	-.02210	-.00870	.00000	.00000	.03160
GRADIENT		.00499	.00095	.00250	-.00038	.00000	.00000	.00002



MSFC 370 (1A31F) (S3/2) / (O3) / (T9) (U5) / (S3/2)

(R43S20) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 301.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ZPBINC = -.500
 SPACER = .000 SPADTA = .000
 SPAGAP = .000

RUN NO. 3163/ 0 RNVL = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.07350	-.02230	-.04630	-.01020	.00000	.00000	.02370
1.048	-8.000	-.05920	-.01620	-.02290	-.00930	.00000	.00000	.02220
1.048	-6.000	-.04650	-.01170	-.00110	-.00930	.00000	.00000	.02160
1.048	-5.000	-.04050	-.00950	.00900	-.00950	.00000	.00000	.02190
1.048	-4.000	-.03470	-.00750	.01730	-.01010	.00000	.00000	.02190
1.048	-2.000	-.02390	-.00450	.02750	-.01210	.00000	.00000	.02110
1.048	.000	-.01420	-.00230	.02960	-.01440	.00000	.00000	.02010
1.048	2.000	-.00410	-.00190	.02730	-.01520	.00000	.00000	.02120
1.048	4.000	.00890	-.00310	.01780	-.01210	.00000	.00000	.02050
1.048	5.000	.01490	-.00310	.01470	-.01130	.00000	.00000	.02000
1.048	6.000	.02120	-.00310	.01010	-.01070	.00000	.00000	.01980
1.048	8.000	.03480	-.00260	-.00330	-.01010	.00000	.00000	.01960
1.048	10.000	.04990	-.00170	-.02260	-.01030	.00000	.00000	.02000
GRADIENT		.00345	.00061	.00033	-.00026	.00000	.00000	-.00017

RUN NO. 3162/ 0 RNVL = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.08100	-.02890	-.05950	-.01390	.00000	.00000	.03350
1.246	-8.000	-.06170	-.02230	-.02980	-.01190	.00000	.00000	.03330
1.246	-6.000	-.04620	-.01670	-.00350	-.01160	.00000	.00000	.03310
1.246	-5.000	-.03940	-.01430	.00700	-.01210	.00000	.00000	.03340
1.246	-4.000	-.03280	-.01210	.01730	-.01350	.00000	.00000	.03350
1.246	-2.000	-.02180	-.00790	.03200	-.01700	.00000	.00000	.03270
1.246	.000	-.01420	-.00370	.03510	-.01940	.00000	.00000	.03160
1.246	2.000	-.00600	-.00130	.03170	-.01930	.00000	.00000	.03390
1.246	4.000	.00690	-.00200	.02370	-.01780	.00000	.00000	.03810
1.246	5.000	.01310	-.00190	.01970	-.01630	.00000	.00000	.03990
1.246	6.000	.02000	-.00150	.01440	-.01570	.00000	.00000	.03900
1.246	8.000	.03570	-.00070	.00010	-.01520	.00000	.00000	.03710
1.246	10.000	.05220	-.00080	-.02310	-.01660	.00000	.00000	.03770
GRADIENT		.00503	.00129	.00098	-.00045	.00000	.00000	.00053

MSFC 370 (1A31F) (S3/2)/(03)/(T9) (U3)/(S3/2)

(R83520) (14 SEP 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 301.000
 DELTA2 = .140 BUDDER = .000
 X-SFD = .000 QP3INC = -.500
 SPACER = .000 SPAD1A = .000
 SPAGAP = .000

RUN NO. 3190/ 0 RN/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.965	-10.000	-.11690	.04340	-.06100	.03250	.00000	.00000	.02400
1.965	-8.000	-.08190	.02590	-.04490	.02290	.00000	.00000	.02150
1.965	-6.000	-.05630	.01570	-.02100	.00570	.00000	.00000	.02050
1.965	-5.000	-.04710	.01350	-.00900	-.00210	.00000	.00000	.02040
1.965	-4.000	-.03900	.01190	.00320	-.00990	.00000	.00000	.02020
1.965	-2.000	-.02620	.01020	.01820	-.02150	.00000	.00000	.02040
1.965	.000	-.01700	.01010	.02220	-.02790	.00000	.00000	.02150
1.965	2.000	-.00860	.00960	.02370	-.02740	.00000	.00000	.02230
1.965	4.000	.00000	.00930	.01590	-.02550	.00000	.00000	.02400
1.965	5.000	.00610	.00630	.01030	-.02190	.00000	.00000	.02390
1.965	6.000	.01330	.00390	.00300	-.01720	.00000	.00000	.02390
1.965	8.000	.03130	.00130	-.01740	-.00420	.00000	.00000	.02540
1.965	10.000	.05590	-.01320	-.04090	.00900	.00000	.00000	.02700
GRADIENT		.00509	-.00057	.00164	-.00192	.00000	.00000	.00041

RUN NO. 3155/ 0 RN/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.09780	-.00660	-.02970	-.00400	.00000	.00000	.01090
3.480	-8.000	-.08010	-.00570	-.02450	-.00210	.00000	.00000	.01090
3.480	-6.000	-.06040	-.00340	-.01850	-.00090	.00000	.00000	.01020
3.480	-5.000	-.05010	-.00340	-.01320	-.00130	.00000	.00000	.00990
3.480	-4.000	-.04080	-.00320	-.00690	-.00250	.00000	.00000	.00770
3.480	-2.000	-.02500	-.00410	.00730	-.00650	.00000	.00000	.00740
3.480	.000	-.01290	-.00120	.01920	-.01070	.00000	.00000	.01000
3.480	2.000	-.00360	.00190	.01890	-.01250	.00000	.00000	.00950
3.480	4.000	.00510	.00470	.01120	-.01150	.00000	.00000	.00950
3.480	5.000	.01010	.00610	.00570	-.00990	.00000	.00000	.00910
3.480	6.000	.01650	.00720	.00040	-.00960	.00000	.00000	.00930
3.480	8.000	.03380	.00920	-.00990	-.00660	.00000	.00000	.00910
3.480	10.000	.05410	.00920	-.01490	-.00360	.00000	.00000	.00920
GRADIENT		.00586	.00121	.00211	-.00101	.00000	.00000	.00015



MSFC 570 (1A31F) (S3/2) / (O3) / (T9) (U5) / (S3/2)

(R3S21) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 301.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3173/ 0 RM/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.05900	.01440	-.03000	.01550	.00000	.00000	.03360
.598	-8.000	-.04710	.01120	-.00890	.00190	.00000	.00000	.03200
.598	-6.000	-.03430	.00630	.00890	-.00900	.00000	.00000	.03110
.598	-5.000	-.02690	.00230	.01250	-.01060	.00000	.00000	.03020
.598	-4.000	-.02070	-.00020	.01620	-.01310	.00000	.00000	.02950
.598	-2.000	-.01170	-.00310	.02250	-.01980	.00000	.00000	.02900
.598	.000	-.00430	-.00470	.02420	-.02300	.00000	.00000	.02890
.598	2.000	.00230	-.00630	.02260	-.02290	.00000	.00000	.02890
.598	4.000	.01020	-.00960	.01780	-.01830	.00000	.00000	.02740
.598	5.000	.01450	-.01120	.01590	-.01620	.00000	.00000	.02650
.598	6.000	.01860	-.01240	.01270	-.01340	.00000	.00000	.02930
.598	8.000	.02630	-.01350	.00360	-.00540	.00000	.00000	.02950
.598	10.000	.03720	-.01700	-.01320	.00510	.00000	.00000	.03220
.598	GRADIENT	.00398	-.00125	.00026	-.00061	.00000	.00000	-.00019

RUN NO. 3172/ 0 RM/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06810	.01690	-.05260	.01580	.00000	.00000	.02980
.902	-8.000	-.05430	.01270	-.03430	.00590	.00000	.00000	.02950
.902	-6.000	-.04330	.01110	-.01080	-.00580	.00000	.00000	.02860
.902	-5.000	-.03810	.01000	-.00100	-.01130	.00000	.00000	.02950
.902	-4.000	-.03220	.00770	.00410	-.01290	.00000	.00000	.02990
.902	-2.000	-.02090	.00260	.01030	-.01370	.00000	.00000	.02740
.902	.000	-.01280	.00110	.02210	-.02310	.00000	.00000	.02950
.902	2.000	-.00450	-.00070	.02570	-.02670	.00000	.00000	.02940
.902	4.000	.00570	-.00610	.01750	-.02040	.00000	.00000	.02970
.902	5.000	.01190	-.00970	.01360	-.01770	.00000	.00000	.02910
.902	6.000	.01790	-.01270	.00850	-.01440	.00000	.00000	.02900
.902	8.000	.02880	-.01730	-.00480	-.00630	.00000	.00000	.03070
.902	10.000	.04100	-.02250	-.02270	.00340	.00000	.00000	.03120
.902	GRADIENT	.00483	-.00178	.00175	-.00099	.00000	.00000	.00006

(R03521) (14 SEP 73)

MSFC 570 (IAB1F) (S3/2)/(G3)/(T9) (U5)/(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 9REF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COAFIC = 301.000
 DELTAZ = .140 RUDDER = .090
 X-SPB = .000 GRDINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3171/ 0 RNVL = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.07510	.01970	-.04970	.01790	.00000	.00000	.02220
1.047	-8.000	-.06050	.01590	-.02590	.00590	.00000	.00000	.02070
1.047	-6.000	-.04740	.01450	-.00370	-.00560	.00000	.00000	.01960
1.047	-5.000	-.04170	.01370	.00640	-.01170	.00000	.00000	.01990
1.047	-4.000	-.03590	.01240	.01510	-.01750	.00000	.00000	.02020
1.047	-2.000	-.02500	.00930	.02690	-.02690	.00000	.00000	.02040
1.047	.000	-.01590	.00640	.03040	-.03150	.00000	.00000	.01350
1.047	2.000	-.00620	.00200	.02700	-.03020	.00000	.00000	.02030
1.047	4.000	.00690	-.00660	.01770	-.02200	.00000	.00000	.02000
1.047	5.000	.01290	-.00990	.01340	-.01930	.00000	.00000	.01960
1.047	6.000	.01940	-.01350	.00930	-.01430	.00000	.00000	.01930
1.047	8.000	.03340	-.02130	-.00420	-.00540	.00000	.00000	.01970
1.047	10.000	.04980	-.03020	-.01950	.00390	.00000	.00000	.02020
GRADIENT	.00335	-.00232	.00051	.00051	-.00054	.00000	.00000	-.00003

RUN NO. 3170/ 0 RNVL = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.08390	.01700	-.06390	.02220	.00000	.00000	.03410
1.246	-8.000	-.06390	.01250	-.03330	.00760	.00000	.00000	.03200
1.246	-6.000	-.04820	.00950	-.00760	-.00620	.00000	.00000	.03220
1.246	-5.000	-.04150	.00840	.00340	-.01290	.00000	.00000	.03310
1.246	-4.000	-.03520	.00730	.01400	-.02000	.00000	.00000	.03350
1.246	-2.000	-.02460	.00590	.02930	-.03210	.00000	.00000	.03290
1.246	.000	-.01710	.00560	.03340	-.03730	.00000	.00000	.03190
1.246	2.000	-.00920	.00400	.03110	-.03650	.00000	.00000	.03310
1.246	4.000	.00420	-.00350	.02520	-.03200	.00000	.00000	.03350
1.246	5.000	.01070	-.00740	.02050	-.02950	.00000	.00000	.03460
1.246	6.000	.01740	-.01090	.01490	-.02480	.00000	.00000	.03400
1.246	8.000	.03100	-.01590	.00010	-.01650	.00000	.00000	.03590
1.246	10.000	.04930	-.02500	-.02210	-.00590	.00000	.00000	.03760
GRADIENT	.00493	-.00141	.00149	.00149	-.00150	.00000	.00000	.00049



MSFC 970 (1A31F) (S3/2) (Q31) (T9) (U5) (S3/2)

(R03S21) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 301.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3191/ 0 RN/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.11790	.04360	-.06200	.03390	.00000	.00000	.02280
1.967	-8.000	-.08400	.02810	-.04790	.02590	.00000	.00000	.02040
1.967	-6.000	-.05810	.01740	-.02420	.00970	.00000	.00000	.01970
1.967	-5.000	-.04910	.01520	-.01150	.00110	.00000	.00000	.01990
1.967	-4.000	-.04120	.01350	-.00010	-.00690	.00000	.00000	.02030
1.967	-2.000	-.02830	.01180	.01590	-.01970	.00000	.00000	.02150
1.967	.000	-.01920	.01220	.02110	-.02620	.00000	.00000	.02180
1.967	2.000	-.01390	.01470	.01920	-.02680	.00000	.00000	.02240
1.967	4.000	-.00290	.01160	.01530	-.02360	.00000	.00000	.02280
1.967	5.000	.00370	.00900	.00930	-.02170	.00000	.00000	.02290
1.967	6.000	.01110	.00620	.00150	-.01680	.00000	.00000	.02330
1.967	8.000	.02800	.00040	-.01930	-.00380	.00000	.00000	.02490
1.967	10.000	.03420	-.01190	-.04180	.00490	.00000	.00000	.02690
GRADIENT	.00496	-.00036	.00191	-.00226	.00000	.00000	.00000	.00030

RUN NO. 3196/ 0 RN/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10160	-.00440	-.02960	-.00320	.00000	.00000	.01060
3.480	-8.000	-.08350	-.00360	-.02470	-.00180	.00000	.00000	.01090
3.480	-6.000	-.06450	-.00350	-.01990	-.00030	.00000	.00000	.01020
3.480	-5.000	-.05430	-.00360	-.01460	-.00090	.00000	.00000	.00940
3.480	-4.000	-.04490	-.00350	-.00810	-.00210	.00000	.00000	.00970
3.480	-2.000	-.02870	-.00220	.00620	-.00600	.00000	.00000	.00920
3.480	.000	-.01650	.00010	.01640	-.01010	.00000	.00000	.00990
3.480	2.000	-.00720	.00350	.01600	-.01240	.00000	.00000	.01010
3.480	4.000	.00130	.00690	.01060	-.01090	.00000	.00000	.00920
3.480	5.000	.00640	.00850	.00480	-.00960	.00000	.00000	.00880
3.480	6.000	.01300	.00960	-.00060	-.00850	.00000	.00000	.00800
3.480	8.000	.03100	.00990	-.01040	-.00630	.00000	.00000	.00910
3.480	10.000	.04980	.01040	-.01700	-.00620	.00000	.00000	.00910
GRADIENT	.00590	.00126	.00217	-.00102	.00000	.00000	.00000	.00000

NSFC 570 (1A31F) (S3/2) (G3) (T9) (U5) (S3/2)

(R9322) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 301.000
 DELTAZ = .140 RUDDER = .000
 X-SF3 = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3181/ 0 RN/L = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.590	-10.000	-.06070	.01560	-.03310	.01910	.00000	.00000	.03290
.590	-8.000	-.04820	.01250	-.01030	.00410	.00000	.00000	.02440
.590	-6.000	-.03620	.00780	.00330	-.00350	.00000	.00000	.03000
.590	-5.000	-.02870	.00390	.01020	-.00910	.00000	.00000	.02450
.590	-4.000	-.02240	.00090	.01450	-.01130	.00000	.00000	.02790
.590	-2.000	-.01350	-.00150	.02100	-.01920	.00000	.00000	.02740
.590	.000	-.00630	-.00270	.02300	-.02150	.00000	.00000	.02490
.590	2.000	.00100	-.00490	.01940	-.01990	.00000	.00000	.02790
.590	4.000	.00920	-.00840	.01450	-.01550	.00000	.00000	.02400
.590	5.000	.01290	-.00940	.01390	-.01430	.00000	.00000	.02400
.590	6.000	.01560	-.01040	.01170	-.01210	.00000	.00000	.02430
.590	8.000	.02470	-.01230	.00290	-.00490	.00000	.00000	.02950
.590	10.000	.03480	-.01320	-.01260	.00300	.00000	.00000	.02950
GRADIENT		.00403	-.00122	.00017	-.00037	.00000	.00000	-.00002

RUN NO. 3180/ 0 RN/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.08840	.01690	-.03890	.01910	.00000	.00000	.03090
.899	-8.000	-.05600	.01450	-.03630	.00920	.00000	.00000	.02910
.899	-6.000	-.04430	.01220	-.03370	-.00290	.00000	.00000	.02920
.899	-5.000	-.03890	.01070	-.03460	-.00790	.00000	.00000	.02990
.899	-4.000	-.03410	.00960	.00420	-.01300	.00000	.00000	.02950
.899	-2.000	-.02450	.00840	.01520	-.01970	.00000	.00000	.02640
.899	.000	-.01440	.00190	.01600	-.01770	.00000	.00000	.02940
.899	2.000	-.00660	.00090	.02540	-.02660	.00000	.00000	.02930
.899	4.000	.00370	-.00410	.01750	-.02040	.00000	.00000	.02900
.899	5.000	.01020	-.00910	.01270	-.01720	.00000	.00000	.02940
.899	6.000	.01640	-.01150	.00710	-.01370	.00000	.00000	.02950
.899	8.000	.02720	-.01610	-.00610	-.00560	.00000	.00000	.03340
.899	10.000	.03920	-.02110	-.02490	.00430	.00000	.00000	.03340
GRADIENT		.00481	-.00178	.00178	-.00102	.00000	.00000	.00000

WSFC 570 (1A31F) (33/2) / (03) / (19) (U5) / (33/2)

(R93S22) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 301.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3179/ 0 RWL = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.045	-10.000	-.07740	.02140	-.05370	.01930	.00000	.00000	.02090
1.045	-8.000	-.06160	.01770	-.02860	.00900	.00000	.00000	.01960
1.045	-6.000	-.04830	.01320	-.00350	-.00410	.00000	.00000	.01910
1.045	-5.000	-.04240	.01420	.00330	-.01080	.00000	.00000	.01950
1.045	-4.000	-.03680	.01310	.01480	-.01720	.00000	.00000	.02030
1.045	-2.000	-.02640	.01030	.02740	-.02730	.00000	.00000	.02090
1.045	.000	-.01700	.00720	.03030	-.03140	.00000	.00000	.01940
1.045	2.000	-.00750	.00270	.02700	-.03000	.00000	.00000	.02020
1.045	4.000	.00500	-.03490	.01740	-.02200	.00000	.00000	.02000
1.045	5.000	.01120	-.00870	.01300	-.01850	.00000	.00000	.01970
1.045	6.000	.01770	-.01250	.00790	-.01470	.00000	.00000	.01960
1.045	8.000	.03140	-.01990	-.00450	-.00560	.00000	.00000	.01990
1.045	10.000	.04810	-.02880	-.02080	.00440	.00000	.00000	.01940
GRADIENT	.00526	-.00224	.00053	-.00070	.00000	.00000	.00000	-.00002

RUN NO. 3178/ 0 RWL = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.08520	.01940	-.06470	.02470	.00000	.00000	.03320
1.250	-8.000	-.06540	.01440	-.03570	.01040	.00000	.00000	.03120
1.250	-6.000	-.04980	.01120	-.01060	-.00320	.00000	.00000	.03090
1.250	-5.000	-.04290	.00990	.00030	-.01010	.00000	.00000	.03170
1.250	-4.000	-.03650	.00880	.01130	-.01770	.00000	.00000	.03240
1.250	-2.000	-.02630	.00760	.02780	-.03060	.00000	.00000	.03260
1.250	.000	-.01940	.00790	.03260	-.03620	.00000	.00000	.03160
1.250	2.000	-.01130	.00600	.03040	-.03590	.00000	.00000	.03240
1.250	4.000	.00200	-.00200	.02510	-.03190	.00000	.00000	.03720
1.250	5.000	.00850	-.00590	.02060	-.02970	.00000	.00000	.03920
1.250	6.000	.01510	-.00910	.01470	-.02500	.00000	.00000	.03850
1.250	8.000	.02830	-.01440	-.00100	-.01590	.00000	.00000	.03670
1.250	10.000	.04620	-.02280	-.02120	-.00650	.00000	.00000	.03760
GRADIENT	.00490	-.00139	.00190	-.00178	.00000	.00000	.00000	.00057

(R83522) (14 SEP 73)

MSFC 370 (1A31F) (S3/2) / (G3) / (T9) (U3) / (S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CORPIC = 301.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GR3INC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3192/ 0 RWL = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.980	-10.000	-.12200	.04910	-.06600	.03770	.00000	.00000	.02330
1.980	-8.000	-.08700	.03120	-.05120	.02930	.00000	.00000	.01960
1.980	-6.000	-.06020	.01930	-.02760	.01330	.00000	.00000	.01790
1.980	-5.000	-.05060	.01640	-.01320	.00490	.00000	.00000	.01750
1.980	-4.000	-.04240	.01450	-.00390	-.00320	.00000	.00000	.01760
1.980	-2.000	-.02980	.01290	.01270	-.01690	.00000	.00000	.01970
1.980	.000	-.02140	.01360	.01840	-.02400	.00000	.00000	.02010
1.980	2.000	-.01490	.01530	.01890	-.02460	.00000	.00000	.02020
1.980	4.000	-.00550	.01440	.01410	-.02450	.00000	.00000	.02220
1.980	5.000	.00100	.01180	.00410	-.02070	.00000	.00000	.02230
1.980	6.000	.00560	.00870	.00040	-.01590	.00000	.00000	.02260
1.980	8.000	.02640	.00120	-.01990	-.00400	.00000	.00000	.02420
1.980	10.000	.05500	-.01390	-.04100	.00940	.00000	.00000	.02520
GRADIENT	.00484	-.00021	.00219	.00219	-.00254	.00000	.00000	.00000

RUN NO. 3157/ 0 RWL = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10490	-.00340	-.03160	-.00270	.00000	.00000	.01060
3.480	-8.000	-.08750	-.00260	-.02620	-.00150	.00000	.00000	.01060
3.480	-6.000	-.06780	-.00270	-.02240	.00030	.00000	.00000	.01040
3.480	-5.000	-.05720	-.00290	-.01790	.00000	.00000	.00000	.00990
3.480	-4.000	-.04750	-.00280	-.01140	-.00090	.00000	.00000	.00900
3.480	-2.000	-.03090	-.00140	.00370	-.00490	.00000	.00000	.00790
3.480	.000	-.01870	.00090	.01430	-.00930	.00000	.00000	.00930
3.480	2.000	-.00900	.00430	.01720	-.01210	.00000	.00000	.01020
3.480	4.000	-.00110	.00820	.00970	-.01090	.00000	.00000	.00930
3.480	5.000	.00400	.01020	.00470	-.01020	.00000	.00000	.00930
3.480	6.000	.01060	.01150	-.00040	-.00940	.00000	.00000	.00990
3.480	8.000	.02930	.01170	-.01120	-.00740	.00000	.00000	.00460
3.480	10.000	.04730	.01210	-.01980	-.00710	.00000	.00000	.00490
GRADIENT	.00395	.00134	.00249	.00249	-.00117	.00000	.00000	.00000



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2)/(03/2)/(T9) (U5)/(S3/2)

(R9323) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COEFIC = 301.000
 DELTAZ = .290 RUDDER = .000
 X-SR9 = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3166/ 0 RVL = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.598	-10.000	-.05880	-.01630	-.02620	-.00220	.00000	.00000	.03360
.598	-8.000	-.04590	-.01530	-.00440	-.00390	.00000	.00000	.03340
.598	-6.000	-.03340	-.01390	.01170	-.00470	.00000	.00000	.03210
.598	-5.000	-.02590	-.01240	.01590	-.00450	.00000	.00000	.03050
.598	-4.000	-.01940	-.01170	.01970	-.00510	.00000	.00000	.02960
.598	-2.000	-.00910	-.01000	.02590	-.00790	.00000	.00000	.02930
.598	.000	.00020	-.00810	.02630	-.00960	.00000	.00000	.02910
.598	2.000	.00820	-.00650	.02330	-.00950	.00000	.00000	.02970
.598	4.000	.01610	-.00510	.02030	-.00760	.00000	.00000	.02950
.598	5.000	.02010	-.00440	.01730	-.00610	.00000	.00000	.03000
.598	6.000	.02420	-.00350	.01330	-.00450	.00000	.00000	.03030
.598	8.000	.03280	-.00270	.00190	-.00110	.00000	.00000	.03040
.598	10.000	.04210	.00230	-.01630	.00050	.00000	.00000	.03160
	GRADIENT	.00452	.00082	.00005	-.00024	.00000	.00000	-.00002

RUN NO. 3167/ 0 RVL = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.902	-10.000	-.06550	-.02100	-.05470	-.01470	.00000	.00000	.03240
.902	-8.000	-.05320	-.01630	-.03140	-.01270	.00000	.00000	.03050
.902	-6.000	-.04190	-.01210	-.00900	-.01200	.00000	.00000	.03070
.902	-5.000	-.03560	-.01090	.00060	-.01210	.00000	.00000	.03110
.902	-4.000	-.02870	-.01060	.00650	-.01110	.00000	.00000	.02990
.902	-2.000	-.01570	-.01090	.01260	-.00900	.00000	.00000	.02630
.902	.000	-.00630	-.00830	.02160	-.01140	.00000	.00000	.02760
.902	2.000	.00290	-.00570	.02700	-.01250	.00000	.00000	.03020
.902	4.000	.01340	-.00320	.01840	-.01100	.00000	.00000	.02890
.902	5.000	.01920	-.00410	.01420	-.01030	.00000	.00000	.02920
.902	6.000	.02310	-.00320	.00920	-.00980	.00000	.00000	.02960
.902	8.000	.03290	-.00180	-.00310	-.00950	.00000	.00000	.03070
.902	10.000	.04340	.00000	-.02340	-.00950	.00000	.00000	.03230
	GRADIENT	.00527	.00073	.00160	.00003	.00000	.00000	-.00006

NSFC 370 (1A31F) (S3/2) / (C3) / (T9) (U3) / (S3/2)

(R93523) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

PARAMETRIC DATA

BETA = .000
 COMFIC = 301.000
 DELTAZ = .200
 RUDDER = .000
 X-SRB = .000
 Y-DINC = -.500
 SPACER = .000
 SPADIA = .000
 SPAGAP = .000

RUN NO. 3169/ 0 RIVL = 5.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.07440	-.02190	-.04340	-.01100	.00000	.00000	.02310
1.049	-9.000	-.05930	-.01660	-.02030	-.00990	.00000	.00000	.02240
1.049	-8.000	-.04390	-.01170	.00100	-.00970	.00000	.00000	.02090
1.049	-7.000	-.03940	-.00960	.01140	-.01020	.00000	.00000	.02120
1.049	-6.000	-.03330	-.00780	.01950	-.01100	.00000	.00000	.02110
1.049	-5.000	-.02240	-.00590	.02920	-.01330	.00000	.00000	.01970
1.049	-4.000	-.01250	-.00290	.03150	-.01560	.00000	.00000	.01980
1.049	-3.000	-.00110	-.00290	.02970	-.01560	.00000	.00000	.01990
1.049	-2.000	.01130	-.00360	.01990	-.01250	.00000	.00000	.01990
1.049	-1.000	.01690	-.00340	.01530	-.01150	.00000	.00000	.01970
1.049	0.000	.02290	-.00320	.01130	-.01090	.00000	.00000	.01910
1.049	1.000	.03610	-.00260	-.00310	-.01010	.00000	.00000	.01920
1.049	2.000	.04960	-.00100	-.02510	-.00990	.00000	.00000	.02000
1.049	3.000	.05550	.00050	.00027	-.00919	.00000	.00000	-.00026

GRADIENT

RUN NO. 3169/ 0 RIVL = 5.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.09060	-.02890	-.05940	-.01400	.00000	.00000	.03250
1.253	-9.000	-.08090	-.02220	-.02550	-.01220	.00000	.00000	.03250
1.253	-8.000	-.04560	-.01670	.00140	-.01200	.00000	.00000	.03290
1.253	-7.000	-.03950	-.01420	.00960	-.01290	.00000	.00000	.03290
1.253	-6.000	-.03230	-.01160	.01970	-.01430	.00000	.00000	.03240
1.253	-5.000	-.02200	-.00690	.03290	-.01780	.00000	.00000	.03160
1.253	-4.000	-.01370	-.00290	.03600	-.02000	.00000	.00000	.03150
1.253	-3.000	-.00460	-.00090	.03320	-.01960	.00000	.00000	.03290
1.253	-2.000	.00900	-.00210	.02460	-.01740	.00000	.00000	.03570
1.253	-1.000	.01460	-.00150	.02040	-.01660	.00000	.00000	.03660
1.253	0.000	.02050	-.00060	.01480	-.01620	.00000	.00000	.03560
1.253	1.000	.03320	.00160	.00900	-.01660	.00000	.00000	.03540
1.253	2.000	.04890	.00410	-.02410	-.01910	.00000	.00000	.03700
1.253	3.000	.05517	.00126	.00097	-.00939	.00000	.00000	.00043

GRADIENT

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/21) (03) / (78) (U5) / (83/2)

(083523) (14 SEP 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 SREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 301.000
 DELTAZ = .290 RUDDER = .000
 X-SFB = .000 CRINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3193/ 0 RWL = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.965	-10.000	-.11110	.03790	-.06090	.03350	.00000	.00000	.02370
1.965	-8.000	-.07700	.02090	-.04460	.02370	.00000	.00000	.02050
1.965	-6.000	-.03260	.01200	-.02020	.00690	.00000	.00000	.01940
1.965	-5.000	-.04340	.00990	-.00700	-.00220	.00000	.00000	.01970
1.965	-4.000	-.03330	.00920	.00460	-.01060	.00000	.00000	.01970
1.965	-2.000	-.02250	.00650	.02060	-.02350	.00000	.00000	.01940
1.965	.000	-.01360	.00690	.02460	-.02900	.00000	.00000	.02040
1.965	2.000	-.00470	.00590	.02230	-.02860	.00000	.00000	.02140
1.965	4.000	.00300	.00440	.01350	-.02450	.00000	.00000	.02310
1.965	5.000	.01130	.00260	.01050	-.02150	.00000	.00000	.02290
1.965	6.000	.01850	.00030	.00350	-.01720	.00000	.00000	.02310
1.965	8.000	.03590	-.00570	-.01720	-.00430	.00000	.00000	.02490
1.965	10.000	.09930	-.01470	-.04290	.01120	.00000	.00000	.02550
GRADIENT	.00523	-.00059	.00149	-.00190	.00000	.00000	.00000	.00036

RUN NO. 3158/ 0 RWL = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.10060	-.00430	-.02740	-.00370	.00000	.00000	.01060
3.480	-8.000	-.08300	-.00310	-.02300	-.00210	.00000	.00000	.01090
3.480	-6.000	-.06360	-.00260	-.01690	-.00130	.00000	.00000	.01090
3.480	-5.000	-.03350	-.00270	-.01140	-.00170	.00000	.00000	.01090
3.480	-4.000	-.04430	-.00250	-.00510	-.00300	.00000	.00000	.01000
3.480	-2.000	-.02840	-.00120	.00820	-.00690	.00000	.00000	.00920
3.480	.000	-.01610	.00140	.01720	-.01050	.00000	.00000	.00940
3.480	2.000	-.00620	.00460	.01690	-.01190	.00000	.00000	.00990
3.480	4.000	.00490	.00690	.00930	-.01010	.00000	.00000	.00860
3.480	5.000	.01020	.00970	.00400	-.00890	.00000	.00000	.00940
3.480	6.000	.01650	.01020	-.00140	-.00770	.00000	.00000	.00930
3.480	8.000	.03260	.01190	-.01270	-.00330	.00000	.00000	.00990
3.480	10.000	.05230	.01160	-.02200	-.00440	.00000	.00000	.00930
GRADIENT	.00622	.00119	.00169	-.00093	.00000	.00000	.00000	-.00016

MSFC 370 (1A31F) (S3/2) (O3) (T9) (U5) (S3/2)

(R5324) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 391.000
DELTAZ = .290 RUDDER = .000
X-SEP = .000 IRBINC = .000
SPACER = .000 SFADIA = .000
SPAGAP = .000

RUN NO. 3174/ 0 RNVL = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.589	-10.000	-.06060	.01580	-.02800	.01340	.00000	.00000	.03230
.589	-9.000	-.04900	.01190	-.00560	-.00970	.00000	.00000	.03100
.589	-8.000	-.03510	.00680	.01010	-.01020	.00000	.00000	.03150
.589	-7.000	-.02680	.00260	.01430	-.01210	.00000	.00000	.03120
.589	-6.000	-.02000	-.00030	.01940	-.01490	.00000	.00000	.03320
.589	-5.000	-.01040	-.00350	.02510	-.02150	.00000	.00000	.02760
.589	-4.000	-.00200	-.00600	.02300	-.02330	.00000	.00000	.02460
.589	-3.000	.00570	-.00920	.02370	-.02290	.00000	.00000	.02900
.589	-2.000	.01320	-.01140	.01850	-.01840	.00000	.00000	.02990
.589	-1.000	.01770	-.01320	.01560	-.01530	.00000	.00000	.02910
.589	0.000	.02210	-.01460	.01160	-.01160	.00000	.00000	.03070
.589	1.000	.03050	-.01650	.00040	-.00240	.00000	.00000	.03370
.589	2.000	.04060	-.01890	-.01600	.00940	.00000	.00000	.03370
.589	3.000	.04431	-.00149	.00005	-.00036	.00000	.00000	-.00019

RUN NO. 3175/ 0 RNVL = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06900	.01750	-.03560	.01670	.00000	.00000	.03120
.902	-9.000	-.04700	.01590	-.03240	.00340	.00000	.00000	.02940
.902	-8.000	-.04400	.01240	-.00970	-.00820	.00000	.00000	.02970
.902	-7.000	-.03730	.00970	.00010	-.01210	.00000	.00000	.03330
.902	-6.000	-.03090	.00660	.00560	-.01400	.00000	.00000	.02350
.902	-5.000	-.01900	.00040	.01090	-.01410	.00000	.00000	.02590
.902	-4.000	-.00910	-.00240	.01980	-.02100	.00000	.00000	.02720
.902	-3.000	-.00030	-.00410	.02720	-.02160	.00000	.00000	.02910
.902	-2.000	.01010	-.00930	.01910	-.02110	.00000	.00000	.02750
.902	-1.000	.01510	-.01150	.01450	-.01800	.00000	.00000	.02450
.902	0.000	.02020	-.01380	.00900	-.01450	.00000	.00000	.02950
.902	1.000	.03030	-.01780	-.00430	-.00640	.00000	.00000	.03170
.902	2.000	.04140	-.02210	-.02450	.00370	.00000	.00000	.03200
.902	3.000	.05514	-.00199	.00176	-.00094	.00000	.00000	-.00014



MSFC 570 (1A31F) (S3/2) / (Q3) / (T9) (U5) / (S3/2)

(R83S24) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CANTIC = 301.000
 DELTAZ = .240 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3176/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.07600	.02150	-.04860	.01540	.00000	.00000	.02190
1.050	-8.000	-.06110	.01790	-.02330	.00340	.00000	.00000	.01990
1.050	-6.000	-.04740	.01500	-.00080	-.00910	.00000	.00000	.01950
1.050	-5.000	-.04100	.01370	.00960	-.01440	.00000	.00000	.01950
1.050	-4.000	-.03490	.01210	.01800	-.02000	.00000	.00000	.01950
1.050	-2.000	-.02380	.00970	.02910	-.02900	.00000	.00000	.01910
1.050	.000	-.01390	.00510	.03050	-.03190	.00000	.00000	.01610
1.050	2.000	-.00270	-.00080	.02860	-.03170	.00000	.00000	.01910
1.050	4.000	.01040	-.00940	.01970	-.02270	.00000	.00000	.01750
1.050	5.000	.01540	-.01190	.01460	-.01930	.00000	.00000	.01730
1.050	6.000	.02120	-.01490	.00980	-.01580	.00000	.00000	.01740
1.050	8.000	.03510	-.02220	-.00230	-.00680	.00000	.00000	.01430
1.050	10.000	.05080	-.03030	-.01950	.00370	.00000	.00000	.01930
GRADIENT		.00562	-.00259	.00032	-.00047	.00000	.00000	-.00019

RUN NO. 3177/ 0 RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.243	-10.000	-.08320	.01740	-.06000	.02020	.00000	.00000	.03320
1.243	-8.000	-.06350	.01290	-.03080	.00590	.00000	.00000	.03290
1.243	-6.000	-.04810	.00990	-.00600	-.00740	.00000	.00000	.03300
1.243	-5.000	-.04110	.00860	.00500	-.01410	.00000	.00000	.03300
1.243	-4.000	-.03470	.00760	.01560	-.02130	.00000	.00000	.03290
1.243	-2.000	-.02400	.00610	.03060	-.03310	.00000	.00000	.03290
1.243	.000	-.01610	.00370	.03430	-.03700	.00000	.00000	.03260
1.243	2.000	-.00780	.00400	.03240	-.03700	.00000	.00000	.03370
1.243	4.000	.00590	-.00420	.02430	-.03100	.00000	.00000	.03660
1.243	5.000	.01150	-.00680	.01930	-.02740	.00000	.00000	.03650
1.243	6.000	.01730	-.00910	.01320	-.02360	.00000	.00000	.03640
1.243	8.000	.02910	-.01290	-.00170	-.01590	.00000	.00000	.03600
1.243	10.000	.04500	-.01990	-.02470	-.00310	.00000	.00000	.03670
GRADIENT		.00508	-.00143	.00122	-.00126	.00000	.00000	.00038

MSFC 570 (I131F)(S3/2)/(C3)/(T9) (U3)/(S3/2)

(R03524) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 3.3130 IN.
 BREF = 3.3130 IN.
 SCALE = .0040

XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

PARAMETRIC DATA

BETA = .000 COAF10 = 301.000
 DELTAZ = .240 RUDDER = .000
 X-SRB = .000 F01INC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3194/ 0 RIV/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.968	-10.000	-1.0970	.03930	-.06090	.03410	.00000	.00000	.02270
1.968	-8.000	-.07930	.02390	-.04660	.02590	.00000	.00000	.02090
1.968	-6.000	-.05550	.01500	-.02160	.00940	.00000	.00000	.01990
1.968	-5.000	-.04660	.01300	-.00970	-.00040	.00000	.00000	.01900
1.968	-4.000	-.03890	.01150	.00250	-.00870	.00000	.00000	.01840
1.968	-2.000	-.02660	.01030	.01920	-.02190	.00000	.00000	.01960
1.968	.000	-.01740	.01050	.02330	-.02820	.00000	.00000	.01960
1.968	2.000	-.00930	.01050	.02140	-.02820	.00000	.00000	.01920
1.968	4.000	.00120	.00760	.01500	-.02440	.00000	.00000	.01950
1.968	5.000	.00750	.00570	.00930	-.02070	.00000	.00000	.02210
1.968	6.000	.01460	.00330	.00180	-.01610	.00000	.00000	.02200
1.968	8.000	.03050	-.00090	-.01940	-.00400	.00000	.00000	.02440
1.968	10.000	.05690	-.01310	-.04200	.00990	.00000	.00000	.02590
GRADIENT		.00517	-.00057	.00163	-.00197	.00000	.00000	.00044

RUN NO. 3199/ 0 RIV/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.10320	-.00290	-.02990	-.00330	.00000	.00000	.01040
3.480	-8.000	-.08590	-.00150	-.02430	-.00170	.00000	.00000	.01090
3.480	-6.000	-.06670	-.00120	-.01830	-.00090	.00000	.00000	.01070
3.480	-5.000	-.05690	-.00110	-.01290	-.00150	.00000	.00000	.01060
3.480	-4.000	-.04750	-.00090	-.00640	-.00290	.00000	.00000	.01040
3.480	-2.000	-.03120	.00000	.00740	-.00660	.00000	.00000	.01010
3.480	.000	-.01870	.00290	.01670	-.01020	.00000	.00000	.01000
3.480	2.000	-.00890	.00620	.01670	-.01160	.00000	.00000	.00940
3.480	4.000	.00260	.00850	.00930	-.01000	.00000	.00000	.00950
3.480	5.000	.00700	.01050	.00290	-.00900	.00000	.00000	.00900
3.480	6.000	.01300	.01200	-.00320	-.00790	.00000	.00000	.00940
3.480	8.000	.03010	.01350	-.01400	-.00560	.00000	.00000	.00950
3.480	10.000	.05050	.01270	-.02290	-.00490	.00000	.00000	.00910
GRADIENT		.00627	.00120	.00177	-.00095	.00000	.00000	-.00024

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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (S3/2)/(G31)/(T9) (U3)/(S3/2)

(R03S25) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONFIG = 301.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRDINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3162/ D RN/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.995	-10.000	-.06250	.01760	-.03050	.01600	.00000	.00000	.03150
.995	-8.000	-.04820	.01240	-.01070	.00370	.00000	.00000	.03020
.995	-6.000	-.03450	.00620	.00170	-.00250	.00000	.00000	.02570
.995	-5.000	-.02810	.00340	.00940	-.00770	.00000	.00000	.02420
.995	-4.000	-.02240	.00130	.01530	-.01210	.00000	.00000	.02760
.995	-2.000	-.01290	-.00160	.02210	-.01450	.00000	.00000	.02690
.995	.000	-.00420	-.00430	.02260	-.02100	.00000	.00000	.02430
.995	2.000	.00320	-.00620	.02190	-.02110	.00000	.00000	.02330
.995	4.000	.01100	-.00940	.01740	-.01690	.00000	.00000	.02770
.995	5.000	.01450	-.01030	.01590	-.01440	.00000	.00000	.02900
.995	6.000	.01650	-.01140	.01120	-.01100	.00000	.00000	.02450
.995	8.000	.02800	-.01440	-.00040	-.00120	.00000	.00000	.02380
.995	10.000	.03720	-.01660	-.01470	.01000	.00000	.00000	.03190
GRADIENT	.00421	-.00134	.00940	-.00064	-.00064	.00000	.00000	.00000

RUN NO. 3163/ D RN/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.906	-10.000	-.06950	.01870	-.05700	.01860	.00000	.00000	.03090
.906	-8.000	-.05580	.01460	-.03500	.00760	.00000	.00000	.02910
.906	-6.000	-.04390	.01200	-.01030	-.00550	.00000	.00000	.02950
.906	-5.000	-.03920	.01130	.00940	-.01170	.00000	.00000	.03040
.906	-4.000	-.03350	.00970	.00550	-.01300	.00000	.00000	.02920
.906	-2.000	-.02090	.00200	.00870	-.01140	.00000	.00000	.02530
.906	.000	-.01130	-.00360	.01760	-.01890	.00000	.00000	.02370
.906	2.000	-.00290	-.00200	.02630	-.02660	.00000	.00000	.02870
.906	4.000	.00750	-.00720	.01790	-.02030	.00000	.00000	.02460
.906	5.000	.01290	-.01010	.01250	-.01660	.00000	.00000	.02770
.906	6.000	.01810	-.01260	.00670	-.01300	.00000	.00000	.02770
.906	8.000	.02890	-.01690	-.00370	-.00610	.00000	.00000	.03070
.906	10.000	.04020	-.02190	-.02450	.00260	.00000	.00000	.03030
GRADIENT	.00511	-.00198	.00161	-.00093	-.00093	.00000	.00000	-.00010

MSFC 570(1A31F)(S3/2)/(Q3)/(T9)(U5)/(S3/2)

(253525) 14 SEP 73

REFERENCE DATA

SREF = .9780 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 301.000
 DELTAZ = .240 RUDDER = .000
 X-SRS = .000 SPDINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3164/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.052	-10.000	-.07910	.02340	-.03590	.01760	.00000	.00000	.02250
1.052	-6.000	-.06270	.01930	-.02590	.00800	.00000	.00000	.01940
1.052	-5.000	-.04960	.01610	-.00270	-.00620	.00000	.00000	.01910
1.052	-5.000	-.04270	.01490	.00730	-.01230	.00000	.00000	.01330
1.052	-4.000	-.03640	.01320	.01630	-.01920	.00000	.00000	.01940
1.052	-2.000	-.02490	.00960	.02740	-.02720	.00000	.00000	.01490
1.052	.000	-.01570	.00640	.02930	-.03090	.00000	.00000	.01760
1.052	2.000	-.00400	.00000	.02910	-.03060	.00000	.00000	.01960
1.052	4.000	.00990	-.00820	.01940	-.02340	.00000	.00000	.01930
1.052	5.000	.01430	-.01100	.01470	-.01950	.00000	.00000	.01470
1.052	6.000	.02020	-.01410	.00930	-.01540	.00000	.00000	.01460
1.052	8.000	.03390	-.02110	-.00330	-.00630	.00000	.00000	.01330
1.052	10.000	.04920	-.02890	-.02110	.00460	.00000	.00000	.02030
GRADIENT	.00564	-.00260	.00055	-.00071	.00000	.00000	.00000	-.00002

RUN NO. 3165/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.09520	.01940	-.06220	.02300	.00000	.00000	.03340
1.248	-6.000	-.06310	.01440	-.03400	.00920	.00000	.00000	.03200
1.248	-6.000	-.04950	.01140	-.00990	-.00430	.00000	.00000	.03160
1.248	-5.000	-.04270	.01030	.00240	-.01120	.00000	.00000	.03210
1.248	-4.000	-.03640	.00930	.01310	-.01950	.00000	.00000	.03250
1.248	-2.000	-.02590	.00790	.02930	-.03070	.00000	.00000	.03200
1.248	.000	-.01790	.00740	.03270	-.03500	.00000	.00000	.03130
1.248	2.000	-.01000	.00590	.03100	-.03590	.00000	.00000	.03270
1.248	4.000	.00350	-.00220	.02460	-.03120	.00000	.00000	.03530
1.248	5.000	.00980	-.00440	.01940	-.02730	.00000	.00000	.03610
1.248	6.000	.01430	-.00850	.01330	-.02390	.00000	.00000	.03530
1.248	8.000	.02590	-.00970	-.00140	-.01890	.00000	.00000	.03510
1.248	10.000	.04130	-.01560	-.02460	-.00590	.00000	.00000	.03700
GRADIENT	.00499	-.00137	.00132	-.00159	.00000	.00000	.00000	.00035

MSFC 370 (1A31F) (S3/2) / (C3) / (T9) (U5) / (S3/2)

(R3S2S) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LRFP = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 301.000
 DELTAZ = .240 RUDDER = .000
 X-SRB = .000 CPGINC = 1.500
 SPACER = .000 SPAOTA = .000
 SPAGAP = .000

RUN NO. 3195/ 0 RNVL = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.979	-10.000	-.11390	.04360	-.06140	.03400	.00000	.00000	.02360
1.979	-8.000	-.08310	.02740	-.04620	.02540	.00000	.00000	.02100
1.979	-6.000	-.05790	.01730	-.02260	.00970	.00000	.00000	.01960
1.979	-5.000	-.04840	.01490	-.01040	.00130	.00000	.00000	.01740
1.979	-4.000	-.04040	.01310	-.00060	-.00690	.00000	.00000	.01730
1.979	-2.000	-.02810	.01190	.01650	-.02020	.00000	.00000	.01740
1.979	.000	-.01910	.01220	.02160	-.02690	.00000	.00000	.01900
1.979	2.000	-.01130	.01230	.02040	-.02730	.00000	.00000	.01990
1.979	4.000	-.00220	.01260	.01460	-.02440	.00000	.00000	.02330
1.979	5.000	.00350	.01140	.00900	-.02120	.00000	.00000	.02390
1.979	6.000	.01060	.00920	.00120	-.01670	.00000	.00000	.02390
1.979	8.000	.02900	.00190	-.02150	-.00260	.00000	.00000	.02510
1.979	10.000	.05650	-.01200	-.04240	.01000	.00000	.00000	.02650
GRADIENT		.00495	-.00020	.00179	-.00219	.00000	.00000	.00064

RUN NO. 3160/ 0 RNVL = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	-.10760	-.00070	-.03090	-.00240	.00000	.00000	.01030
3.480	-8.000	-.08980	.00000	-.02530	-.00150	.00000	.00000	.01030
3.480	-6.000	-.07020	.00040	-.01940	-.00050	.00000	.00000	.01050
3.480	-5.000	-.06010	.00040	-.01390	-.00120	.00000	.00000	.01040
3.480	-4.000	-.05050	.00050	-.00710	-.00250	.00000	.00000	.01030
3.480	-2.000	-.03340	.00130	.00720	-.00630	.00000	.00000	.00990
3.480	.000	-.02150	.00420	.01630	-.01020	.00000	.00000	.01000
3.480	2.000	-.01210	.00750	.01650	-.01190	.00000	.00000	.00990
3.480	4.000	-.00170	.01000	.00890	-.01020	.00000	.00000	.00990
3.480	5.000	.00360	.01220	.00300	-.00920	.00000	.00000	.00790
3.480	6.000	.01030	.01370	-.00290	-.00920	.00000	.00000	.00740
3.480	8.000	.02790	.01420	-.01390	-.00810	.00000	.00000	.00820
3.480	10.000	.04750	.01440	-.02300	-.00590	.00000	.00000	.00950
GRADIENT		.00619	.00122	.00185	-.00091	.00000	.00000	-.00020

MSFC 570 (1A31F) (S3/2) (G3) (T9) (U5) (S3/2)
(R43526) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 301.000
DELTAZ = .140 RUDDER = .000
X-SRB = .500 GJBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3169/ 0 RVL = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.04310	.02270	.05790	-.04860	.00000	.00000	.02770
.598	-8.000	-.03970	.02030	.05530	-.04630	.00000	.00000	.02450
.598	-6.000	-.03100	.01510	.04910	-.04100	.00000	.00000	.02950
.598	-4.000	-.02060	.00760	.03940	-.03390	.00000	.00000	.02930
.598	-2.000	-.01370	.00250	.03230	-.02920	.00000	.00000	.02930
.598	.000	-.00540	-.00370	.02440	-.02300	.00000	.00000	.02990
.598	2.000	.00070	-.00830	.01560	-.01640	.00000	.00000	.02730
.598	4.000	.00550	-.01190	.00750	-.01100	.00000	.00000	.02590
.598	6.000	.00900	-.01460	.00220	-.00790	.00000	.00000	.02600
.598	8.000	.01420	-.01890	.00140	-.00920	.00000	.00000	.02750
.598	10.000	.01820	-.02200	.00310	-.01320	.00000	.00000	.02440
GRADIENT		.00333	-.00243	-.00392	.00292	.00000	.00000	-.00034

RUN NO. 3168/ 0 RVL = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.06030	.03550	.06450	-.05750	.00000	.00000	.03640
.901	-8.000	-.05010	.02990	.05530	-.05000	.00000	.00000	.03340
.901	-6.000	-.04140	.02340	.04740	-.04330	.00000	.00000	.03350
.901	-4.000	-.03330	.01780	.03970	-.03710	.00000	.00000	.03270
.901	-2.000	-.02540	.01240	.03270	-.03160	.00000	.00000	.03170
.901	.000	-.01410	.00220	.01970	-.02090	.00000	.00000	.02620
.901	2.000	-.00840	-.00150	.01950	-.02120	.00000	.00000	.02930
.901	4.000	-.00050	-.00790	.01330	-.01990	.00000	.00000	.02700
.901	6.000	.00360	-.01070	.00450	-.01170	.00000	.00000	.02500
.901	8.000	.00690	-.01390	.00310	-.01260	.00000	.00000	.02490
.901	10.000	.00910	-.01500	.00650	-.01610	.00000	.00000	.02520
GRADIENT		.00413	-.00326	-.00335	.00243	.00000	.00000	-.00059

MSFC 570 (1A31F) (S3/2) / (C3) / (T9) (U5) / (S3/2)

(R03526) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COARFTC = 301.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3187/ 0 RVL = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.054	-10.000	-.05940	.03680	.07010	-.06090	.00000	.00000	.02890
1.054	-8.000	-.04990	.03020	.06190	-.04490	.00000	.00000	.02790
1.054	-6.000	-.04030	.02360	.05290	-.04750	.00000	.00000	.02640
1.054	-4.000	-.03180	.01780	.04310	-.04170	.00000	.00000	.02490
1.054	-2.000	-.02420	.01270	.03660	-.03560	.00000	.00000	.02390
1.054	.000	-.01540	.00550	.02990	-.03060	.00000	.00000	.02030
1.054	2.000	-.00350	-.00290	.02390	-.02710	.00000	.00000	.01970
1.054	4.000	.00310	-.01070	.01730	-.02260	.00000	.00000	.01770
1.054	6.000	.00900	-.01530	.01170	-.01920	.00000	.00000	.01640
1.054	8.000	.01360	-.01860	.01190	-.02110	.00000	.00000	.01650
1.054	10.000	.01740	-.02130	.01430	-.02400	.00000	.00000	.00079
GRADIENT	.00442	-.00363	-.00342	.00234	.00234	.00000	.00000	

RUN NO. 3186/ 0 RVL = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.07250	.04820	.07070	-.06120	.00000	.00000	.04010
1.251	-8.000	-.05950	.03860	.06340	-.05630	.00000	.00000	.03750
1.251	-6.000	-.04860	.03060	.05470	-.05060	.00000	.00000	.03600
1.251	-4.000	-.03900	.02350	.04730	-.04570	.00000	.00000	.03450
1.251	-2.000	-.02980	.01620	.04050	-.04170	.00000	.00000	.03240
1.251	.000	-.02030	.00950	.03460	-.03800	.00000	.00000	.03060
1.251	2.000	-.00950	-.00080	.02790	-.03370	.00000	.00000	.03030
1.251	4.000	.00050	-.01010	.02090	-.02910	.00000	.00000	.03140
1.251	6.000	.00950	-.01820	.01490	-.02390	.00000	.00000	.03110
1.251	8.000	.01560	-.02320	.01540	-.02590	.00000	.00000	.02930
1.251	10.000	.02070	-.02750	.01920	-.03000	.00000	.00000	.02770
GRADIENT	.00496	-.00421	-.00329	.00216	.00216	.00000	.00000	-.00041

NSFC 370 (1A31F) (S3/2)/(03)/(T9) (U3)/(S3/2)

(R83526) (14 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 COARFIC = 301.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3196/ 0 RM/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CEL	CAF	CAB
1.977	-10.000	-.05800	.04020	.05720	-.03030	.00000	.00000	.02760
1.977	-8.000	-.04630	.03170	.05050	-.04630	.00000	.00000	.02710
1.977	-6.000	-.03750	.02490	.04270	-.04090	.00000	.00000	.02590
1.977	-4.000	-.03090	.02010	.03530	-.03530	.00000	.00000	.02410
1.977	-2.000	-.02330	.01610	.02740	-.02960	.00000	.00000	.02320
1.977	.000	-.01910	.01130	.02140	-.02630	.00000	.00000	.02270
1.977	2.000	-.01140	.00440	.01650	-.02410	.00000	.00000	.02130
1.977	4.000	-.00350	-.00350	.01150	-.02190	.00000	.00000	.01960
1.977	6.000	.00390	-.01050	.00740	-.02020	.00000	.00000	.01910
1.977	8.000	.00830	-.01350	.00500	-.02070	.00000	.00000	.02050
1.977	10.000	.01340	-.01810	.00520	-.02300	.00000	.00000	.02040
	GRADIENT	.00344	-.00294	-.00292	.00161	.00000	.00000	-.00035

RUN NO. 3161/ 0 RM/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CEL	CAF	CAB
3.490	-10.000	-.04040	.01310	.04940	-.01670	.00000	.00000	.00940
3.490	-8.000	-.03580	.01270	.04360	-.01600	.00000	.00000	.01000
3.490	-6.000	-.03060	.00980	.03770	-.01490	.00000	.00000	.01030
3.490	-4.000	-.02430	.00710	.03190	-.01390	.00000	.00000	.00950
3.490	-2.000	-.01840	.00400	.02590	-.01240	.00000	.00000	.00920
3.490	.000	-.01140	.00010	.01720	-.01090	.00000	.00000	.00970
3.490	2.000	-.00780	-.00120	.00970	-.00970	.00000	.00000	.00990
3.490	4.000	-.00400	-.00250	.00420	-.00890	.00000	.00000	.00910
3.490	6.000	-.00090	-.00390	-.00230	-.00930	.00000	.00000	.00930
3.490	8.000	-.00090	-.00420	-.00320	-.00750	.00000	.00000	.00970
3.490	10.000	.00260	-.00560	-.01330	-.00740	.00000	.00000	.00900
	GRADIENT	.00256	-.00122	-.00353	.00082	.00000	.00000	-.00015

MSFC 570 (1A31F) (S3/2) / (03) / (19) (U3) (S3/2)

(083534) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 303.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORGINC = .900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3149/ 0 RNL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.592	-10.000	-.06140	.01650	-.02730	.01300	.00000	.00000	.03330
.592	-8.000	-.04820	.01220	-.00770	.00110	.00000	.00000	.03140
.592	-6.000	-.03320	.00720	.00910	-.00930	.00000	.00000	.03060
.592	-4.000	-.02280	.00130	.01810	-.01490	.00000	.00000	.02680
.592	-2.000	-.01180	-.00290	.02430	-.02130	.00000	.00000	.02630
.592	.000	-.00390	-.00490	.02500	-.02410	.00000	.00000	.02670
.592	2.000	.00350	-.00730	.02450	-.02470	.00000	.00000	.02760
.592	4.000	.01330	-.01200	.01970	-.02000	.00000	.00000	.02780
.592	6.000	.02150	-.01490	.01480	-.01500	.00000	.00000	.02860
.592	8.000	.03000	-.01640	.00320	-.00660	.00000	.00000	.02920
.592	10.000	.04020	-.01940	-.01190	.00440	.00000	.00000	.03010
GRADIENT		.00437	-.00155	.00017	-.00068	.00000	.00000	.00016

RUN NO. 3150/ 0 RNL = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06880	.01780	-.03150	.01480	.00000	.00000	.03160
.902	-8.000	-.03550	.01440	-.03100	.00480	.00000	.00000	.02990
.902	-6.000	-.04270	.01130	-.00870	-.00650	.00000	.00000	.02920
.902	-4.000	-.03230	.00970	.00930	-.01660	.00000	.00000	.02970
.902	-2.000	-.02320	.00370	.02120	-.02370	.00000	.00000	.02900
.902	.000	-.01390	.00250	.02670	-.02770	.00000	.00000	.02890
.902	2.000	-.00360	-.00170	.02730	-.02830	.00000	.00000	.02810
.902	4.000	.00830	-.00950	.01970	-.02270	.00000	.00000	.02710
.902	6.000	.02010	-.01390	.01020	-.01620	.00000	.00000	.02850
.902	8.000	.03100	-.01790	-.00280	-.00810	.00000	.00000	.02990
.902	10.000	.04220	-.02270	-.02130	.00220	.00000	.00000	.03190
GRADIENT		.00504	-.00209	.00134	-.00094	.00000	.00000	-.00030

MSFC 570 (1A31F) (S3/2)/(G3)/(T9) (US) (S3/2)

(R8334) 14 SEP 73

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COEF10 = 303.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = .000
 SPACER = .000 CFBOTA = .000
 SPAGAP = .000

RUN NO. 3151/ 0 RNVL = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.07360	.01900	-.04380	.01340	.00000	.00000	.02700
1.049	-8.000	-.05890	.01620	-.02130	.00230	.00000	.00000	.02340
1.049	-6.000	-.04660	.01440	.00100	-.00980	.00000	.00000	.02410
1.049	-4.000	-.03520	.01210	.01990	-.02190	.00000	.00000	.02340
1.049	-2.000	-.02460	.00990	.02930	-.02940	.00000	.00000	.02260
1.049	.000	-.01480	.00520	.03100	-.03280	.00000	.00000	.02190
1.049	2.000	-.00390	.00030	.02430	-.03160	.00000	.00000	.02290
1.049	4.000	.00960	-.00990	.01990	-.02460	.00000	.00000	.02070
1.049	6.000	.02090	-.01430	.01220	-.01900	.00000	.00000	.02040
1.049	8.000	.03390	-.02060	-.00120	-.01050	.00000	.00000	.02170
1.049	10.000	.04890	-.02900	-.02100	.00070	.00000	.00000	.02420
GRADIENT		.00352	-.00256	-.00005	-.00039	.00000	.00000	-.00026

RUN NO. 3152/ 1 RNVL = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	-.08070	.01620	-.06090	.02030	.00000	.00000	.03550
1.244	-8.000	-.06190	.01190	-.03210	.00650	.00000	.00000	.03250
1.244	-6.000	-.04670	.00910	-.00490	-.00820	.00000	.00000	.03200
1.244	-4.000	-.03430	.00700	.01670	-.02210	.00000	.00000	.03260
1.244	-2.000	-.02330	.00510	.03040	-.03320	.00000	.00000	.03190
1.244	.000	-.01460	.00420	.03400	-.03810	.00000	.00000	.03140
1.244	2.000	-.00740	.00210	.03190	-.03730	.00000	.00000	.03340
1.244	4.000	.00680	-.00600	.02470	-.03100	.00000	.00000	.03900
1.244	6.000	.01930	-.01230	.01590	-.02490	.00000	.00000	.03920
1.244	8.000	.03320	-.01840	.00120	-.01670	.00000	.00000	.03770
1.244	10.000	.04940	-.02340	-.01970	-.00660	.00000	.00000	.03990
GRADIENT		.00490	-.00145	.00087	-.00109	.00000	.00000	.00071



MSFC 570(1A31F) (S3/2)/(03)/(19) (U5) (S3/2)

(R03S34) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTC = 303.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3143/ 0 RN/L = 6.87 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.969	-10.000	-.11430	.04390	-.06370	.03610	.00000	.00000	.02390
1.969	-8.000	-.08050	.02620	-.04900	.02660	.00000	.00000	.02040
1.969	-6.000	-.05600	.01610	-.02430	.01040	.00000	.00000	.01940
1.969	-4.000	-.04000	.01280	.00040	-.00700	.00000	.00000	.01990
1.969	-2.000	-.02750	.01130	.01660	-.02020	.00000	.00000	.02090
1.969	.000	-.01910	.01180	.02100	-.02620	.00000	.00000	.02170
1.969	2.000	-.01290	.01340	.01890	-.02610	.00000	.00000	.02290
1.969	4.000	-.00180	.01010	.01340	-.02490	.00000	.00000	.02270
1.969	6.000	.01130	.00540	.00280	-.01700	.00000	.00000	.02330
1.969	8.000	.02760	-.00050	-.01650	-.00510	.00000	.00000	.02480
1.969	10.000	.05210	-.01190	-.03770	.00710	.00000	.00000	.02680
GRADIENT		.00435	-.00016	.00161	-.00209	.00000	.00000	.00038

RUN NO. 3133/ 0 RN/L = 6.96 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.10170	.05080	-.03110	.01390	.00000	.00000	.01090
3.480	-8.000	-.08340	.04160	-.02640	.01290	.00000	.00000	.01090
3.480	-6.000	-.06390	.03120	-.01920	.00970	.00000	.00000	.01050
3.480	-4.000	-.04420	.02020	-.00790	.00200	.00000	.00000	.00990
3.480	-2.000	-.02800	.01240	.00330	-.00990	.00000	.00000	.00900
3.480	.000	-.01390	.00840	.01370	-.01890	.00000	.00000	.01000
3.480	2.000	-.00760	.00760	.01750	-.02210	.00000	.00000	.01010
3.480	4.000	.00050	.00660	.00970	-.01670	.00000	.00000	.01030
3.480	6.000	.01230	.00260	-.00110	-.00790	.00000	.00000	.00950
3.480	8.000	.03030	-.00670	-.01000	-.00090	.00000	.00000	.00950
3.480	10.000	.05030	-.01730	-.01560	.00210	.00000	.00000	.00940
GRADIENT		.00549	-.00160	.00237	-.00253	.00000	.00000	.00023

MSFC 370 (1A31F) (S3/2)/(C3)/(T9) (U5) (S3/2)

(R93335) (07 DEC 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .999 COAFIG = 303.000
 DELTAZ = .140 RUDDER = .990
 X-SR9 = .000 CR9INC = .500
 SPACER = .000 SPADIA = .900
 SPAGAP = .000

RUN NO. 3148/ 0 RVL = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.590	-10.000	-.04930	.02770	.06080	-.03140	.00000	.00000	.03230
.590	-8.000	-.04060	.02160	.05360	-.04540	.00000	.00000	.03120
.590	-6.000	-.03160	.01330	.04770	-.04070	.00000	.00000	.03070
.590	-4.000	-.02330	.00930	.04190	-.03640	.00000	.00000	.03140
.590	-2.000	-.01560	.00380	.03530	-.03160	.00000	.00000	.02990
.590	.000	-.00730	-.00230	.02380	-.02300	.00000	.00000	.02970
.590	2.000	-.00040	-.00740	.01560	-.01690	.00000	.00000	.02400
.590	4.000	.00360	-.01060	.00770	-.01150	.00000	.00000	.02390
.590	6.000	.00920	-.01440	.00390	-.00970	.00000	.00000	.02330
.590	8.000	.01260	-.01750	.00230	-.01060	.00000	.00000	.02390
.590	10.000	.01760	-.02150	.00310	-.01410	.00000	.00000	.02410
GRADIENT		.00345	-.00255	-.00442	.00323	.00000	.00000	-.00105

RUN NO. 3147/ 0 RVL = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.06270	.03760	.06340	-.05630	.00000	.00000	.03350
.899	-8.000	-.05290	.03110	.05570	-.04990	.00000	.00000	.03480
.899	-6.000	-.04400	.02490	.04710	-.04320	.00000	.00000	.03370
.899	-4.000	-.03450	.01840	.04090	-.03910	.00000	.00000	.03100
.899	-2.000	-.02650	.01260	.03470	-.03320	.00000	.00000	.03210
.899	.000	-.01710	.00540	.02790	-.02810	.00000	.00000	.03590
.899	2.000	-.00950	-.00140	.02090	-.02320	.00000	.00000	.03330
.899	4.000	.00010	-.00830	.01470	-.01900	.00000	.00000	.02920
.899	6.000	.00330	-.01050	.00400	-.01120	.00000	.00000	.02550
.899	8.000	.00540	-.01220	.00360	-.01290	.00000	.00000	.02450
.899	10.000	.00910	-.01490	.00560	-.01630	.00000	.00000	.02470
GRADIENT		.00436	-.00337	-.00331	.00241	.00000	.00000	-.00027



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(03)/(79) (U5) (S3/2)

(R93S35) (97 DEC 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 303.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3146/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-.06120	.03810	.07290	-.06360	.00000	.00000	.03290
1.051	-8.000	-.03040	.03090	.06390	-.05640	.00000	.00000	.03090
1.051	-6.000	-.04150	.02420	.03590	-.05040	.00000	.00000	.02920
1.051	-4.000	-.03200	.01780	.04690	-.04350	.00000	.00000	.02770
1.051	-2.000	-.02340	.01160	.03970	-.03960	.00000	.00000	.02490
1.051	.000	-.01510	.00590	.03070	-.03190	.00000	.00000	.02290
1.051	2.000	-.00600	-.00240	.02340	-.02700	.00000	.00000	.02290
1.051	4.000	.00290	-.01030	.01730	-.02290	.00000	.00000	.02110
1.051	6.000	.00650	-.01250	.01020	-.01910	.00000	.00000	.02020
1.051	8.000	.01030	-.01590	.01170	-.02110	.00000	.00000	.01910
1.051	10.000	.01460	-.01810	.01470	-.02460	.00000	.00000	.01790
1.051	GRADIENT	.00436	-.00331	-.00376	.00269	.00000	.00000	-.00076

RUN NO. 3145/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.07350	.04920	.07050	-.06130	.00000	.00000	.04200
1.248	-8.000	-.06050	.03960	.06300	-.05580	.00000	.00000	.03970
1.248	-6.000	-.04950	.03050	.03550	-.05190	.00000	.00000	.03940
1.248	-4.000	-.03960	.02310	.04760	-.04590	.00000	.00000	.03660
1.248	-2.000	-.02920	.01470	.04130	-.04290	.00000	.00000	.03540
1.248	.000	-.01930	.00680	.03510	-.03910	.00000	.00000	.03350
1.248	2.000	-.00970	-.00190	.02770	-.03390	.00000	.00000	.03250
1.248	4.000	.00120	-.01090	.01910	-.02710	.00000	.00000	.03340
1.248	6.000	.00960	-.01730	.01620	-.02550	.00000	.00000	.03200
1.248	8.000	.01370	-.02100	.01320	-.02690	.00000	.00000	.03010
1.248	10.000	.01750	-.02390	.01890	-.03170	.00000	.00000	.02980
1.248	GRADIENT	.00510	-.00422	-.00333	.00243	.00000	.00000	-.00047

MSFC 570 (1A31F) (S3/2)/(Q31)/(T9) (U5) (S3/2)

(R93535) (07 DEC 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 COAFC = 303.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 SPALNC = .500
SPACER = .000 SPADTA = .000
SPAGAP = .000

RUN NO. 3144/ 0 RM/L = 6.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAG
1.992	-10.000	-.05460	.03650	.05720	-.05100	.00000	.00000	.02620
1.992	-8.000	-.04470	.03070	.05040	-.04630	.00000	.00000	.02640
1.992	-6.000	-.03690	.02460	.04260	-.04070	.00000	.00000	.02450
1.992	-4.000	-.02930	.01970	.03510	-.03530	.00000	.00000	.02270
1.992	-2.000	-.02370	.01490	.02710	-.02990	.00000	.00000	.02160
1.992	.000	-.01730	.01000	.02120	-.02620	.00000	.00000	.02090
1.992	2.000	-.01060	.00440	.01460	-.02240	.00000	.00000	.02030
1.992	4.000	-.00210	-.00450	.00990	-.02000	.00000	.00000	.01950
1.992	6.000	.00320	-.01200	.00660	-.01960	.00000	.00000	.02010
1.992	8.000	.00940	-.01500	.00290	-.01910	.00000	.00000	.02320
1.992	10.000	.01310	-.01790	.00310	-.02020	.00000	.00000	.02050
GRADIENT		.00338	-.00284	-.00316	.00190	.00000	.00000	-.00034

RUN NO. 3154/ 0 RM/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAG
3.480	-10.000	-.04030	.03750	.04950	-.04400	.00000	.00000	.00990
3.480	-8.000	-.03500	.03190	.04420	-.04040	.00000	.00000	.01030
3.480	-6.000	-.03070	.02710	.03750	-.03550	.00000	.00000	.01060
3.480	-4.000	-.02530	.02120	.03090	-.03050	.00000	.00000	.01090
3.480	-2.000	-.01960	.01410	.02450	-.02590	.00000	.00000	.01100
3.480	.000	-.01230	.00720	.01610	-.01990	.00000	.00000	.00990
3.480	2.000	-.00900	.00420	.00920	-.01370	.00000	.00000	.00910
3.480	4.000	-.00540	.00090	.00220	-.01010	.00000	.00000	.00850
3.480	6.000	-.00120	-.00290	-.00440	-.00320	.00000	.00000	.00960
3.480	8.000	.00000	-.00430	-.01100	-.00110	.00000	.00000	.00930
3.480	10.000	.00240	-.00690	-.01480	.00070	.00000	.00000	.00920
GRADIENT		.00247	-.00252	-.00367	.00254	.00000	.00000	-.00033



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F)(S3/2)/(C3)/(T9)/(S3/2)Y1E

(R03S40) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRIBINC = .500
 SPACER = 7.900 SPADIA = .100
 SPAGAP = .050

RUN NO. 3217/ 1 RVL = 6.66 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.253	-10.000	-.07150	.00900	-.05820	.01490	.00000	.00000	.03120
1.253	-6.000	-.05320	.00570	-.02950	.00110	.00000	.00000	.02960
1.253	-6.000	-.03870	.00380	-.00240	-.01260	.00000	.00000	.02700
1.253	-4.000	-.02700	.00390	.01870	-.02500	.00000	.00000	.02700
1.253	-2.000	-.01870	.00390	.03260	-.03450	.00000	.00000	.02630
1.253	.000	-.01240	.00450	.03360	-.03700	.00000	.00000	.02530
1.253	2.000	-.00430	.00150	.02890	-.03370	.00000	.00000	.02770
1.253	4.000	.00800	-.00590	.02130	-.02790	.00000	.00000	.03070
1.253	6.000	.01780	-.00970	.01210	-.02170	.00000	.00000	.02990
1.253	8.000	.03040	-.01550	-.00270	-.01290	.00000	.00000	.03040
1.253	10.000	.04600	-.02220	-.02610	-.00090	.00000	.00000	.03170
	GRADIENT	.00422	-.00101	.00007	-.00023	.00000	.00000	.00044

MSFC 570 (1A31F) (S3/21) (O3) (T9) (S3/21) IE

(R93541) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF10 = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SR3 = .000 CRDINC = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .000

RUN NO. 3211/ 1 RW/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	Cv	CYN	CBL	CAF	CAB
1.253	-10.000	-.06980	.00870	-.05590	.01280	.00000	.00000	.02990
1.253	-8.000	-.05210	.00590	-.02720	-.00040	.00000	.00000	.02740
1.253	-6.000	-.03810	.00360	-.00200	-.01350	.00000	.00000	.02650
1.253	-4.000	-.02490	.00210	.01950	-.02620	.00000	.00000	.02670
1.253	-2.000	-.01680	.00240	.03360	-.03590	.00000	.00000	.02610
1.253	.000	-.00960	.00230	.03420	-.03750	.00000	.00000	.02520
1.253	2.000	-.00190	.00040	.02420	-.03330	.00000	.00000	.02720
1.253	4.000	.01050	-.00930	.02120	-.02790	.00000	.00000	.03090
1.253	6.000	.02000	-.01170	.01200	-.02140	.00000	.00000	.02930
1.253	8.000	.03270	-.01770	-.00250	-.01250	.00000	.00000	.02990
1.253	10.000	.04790	-.02410	-.02310	-.00120	.00000	.00000	.03130
	GRADIENT	.00438	-.00118	-.00010	-.00003	.00000	.00000	.00047

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TABULATED SOURCE DATA - HSFC 570

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HSFC 570(1A31F)(S3/2)/(O3)/(T9)/(S3/2)Y1E

(R03S42) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COHFIG = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 11.120 SPADIA = .300
 SPAGAP = .050

RUN NO. 3218/ 1 RVL = 6.67 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.255	-10.000	-.07250	.01010	-.06020	.01530	.00000	.00000	.03190
1.255	-8.000	-.05340	.00600	-.03220	.00200	.00000	.00000	.02960
1.255	-6.000	-.03870	.00330	-.00360	-.01140	.00000	.00000	.02420
1.255	-4.000	-.02620	.00140	.01670	-.02410	.00000	.00000	.02740
1.255	-2.000	-.01590	.00050	.03160	-.03380	.00000	.00000	.02630
1.255	.000	-.00850	.00040	.03400	-.03670	.00000	.00000	.02520
1.255	2.000	-.00080	-.00190	.02470	-.03360	.00000	.00000	.02700
1.255	4.000	.01240	-.01100	.02060	-.02720	.00000	.00000	.03060
1.255	6.000	.02200	-.01470	.01280	-.02160	.00000	.00000	.03010
1.255	8.000	.03460	-.02040	-.00110	-.01280	.00000	.00000	.03070
1.255	10.000	.04980	-.02720	-.02220	-.00140	.00000	.00000	.03390
GRADIENT		.00461	-.00136	.00025	-.00030	.00000	.00000	.00035

MSFC 370 (1A31F) (S3/2) / (C3) / (T9) / (S3/2) Y1E

(R33S43) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF10 = 304.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 ORDINC = .500
SPACER = 13.140 SPADIA = .200
SPAGAP = .100

RUN NO. 3219/ 0 RIV/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.07070	.00830	-.03760	.01460	.00000	.00000	.03190
1.251	-8.000	-.04980	.00370	-.02210	-.00170	.00000	.00000	.02740
1.251	-6.000	-.03850	.00350	-.00340	-.01200	.00000	.00000	.02630
1.251	-4.000	-.02860	.00200	.01710	-.02400	.00000	.00000	.02590
1.251	-2.000	-.01940	.00330	.03120	-.03330	.00000	.00000	.02530
1.251	.000	-.01190	.00400	.03370	-.03540	.00000	.00000	.02430
1.251	2.000	-.00450	.00170	.02930	-.03230	.00000	.00000	.02600
1.251	4.000	.00840	-.00650	.02040	-.02650	.00000	.00000	.02910
1.251	6.000	.01790	-.01020	.01210	-.02090	.00000	.00000	.03020
1.251	8.000	.03040	-.01640	-.00250	-.01170	.00000	.00000	.03130
1.251	10.000	.04620	-.02390	-.02200	-.00140	.00000	.00000	.03410
GRADIENT		.00419	-.00093	.00019	-.00023	.00000	.00000	.00035

MSFC 570 (1A31F) (S3/2) / (C3) / (T9) / (S3/2) Y1E

(R03S44) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = 19.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 3212/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.07360	.01270	-.06150	.01700	.00000	.00000	.02990
1.253	-8.000	-.05620	.00950	-.03340	.00420	.00000	.00000	.02710
1.253	-6.000	-.04150	.00600	-.00790	-.00650	.00000	.00000	.02370
1.253	-4.000	-.02950	.00470	.01420	-.02120	.00000	.00000	.02370
1.253	-2.000	-.02050	.00490	.02990	-.03140	.00000	.00000	.02370
1.253	.000	-.01350	.00310	.03190	-.03500	.00000	.00000	.02490
1.253	2.000	-.00620	.00310	.02710	-.03210	.00000	.00000	.02630
1.253	4.000	.00680	-.00340	.01910	-.02590	.00000	.00000	.03120
1.253	6.000	.01700	-.01000	.01090	-.02040	.00000	.00000	.03060
1.253	8.000	.02950	-.01590	-.00320	-.01200	.00000	.00000	.02990
1.253	10.000	.04400	-.02190	-.02320	-.00110	.00000	.00000	.03190
1.253	GRADIENT	.00434	-.00110	.00040	-.00050	.00000	.00000	.00034

MSFC 570 (1A31F) (S3/2)/(03)/(79)/(S3/2)Y1E

(R03S45) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 304.000
DELTAZ = .140 RUDDER = .000
X-SPB = .000 CRBINC = -.500
SPACER = 20.100 SPADIA = .200
SPAGAP = .050

RUN NO. 3213/ 1 RML = 6.65 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.252	-10.000	-.06860	.00590	-.05640	.01260	.00000	.00000	.03290
1.252	-8.000	-.05010	.00260	-.02540	-.00240	.00000	.00000	.03120
1.252	-6.000	-.03490	.00000	.00250	-.01720	.00000	.00000	.03010
1.252	-4.000	-.02190	-.00190	.02340	-.02920	.00000	.00000	.02930
1.252	-2.000	-.01270	-.00190	.03590	-.03750	.00000	.00000	.02800
1.252	.000	-.00610	-.00140	.03610	-.03890	.00000	.00000	.02660
1.252	2.000	.00200	-.00450	.03100	-.03570	.00000	.00000	.02400
1.252	4.000	.01470	-.01230	.02500	-.03110	.00000	.00000	.02070
1.252	6.000	.02300	-.01460	.01550	-.02450	.00000	.00000	.02570
1.252	8.000	.03450	-.01870	.00110	-.01590	.00000	.00000	.02950
1.252	10.000	.05010	-.02540	-.02500	-.00110	.00000	.00000	.03120
GRADIENT		.00439	-.00117	-.00009	-.00010	.00000	.00000	.00015

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F)(S3/2)/(03)/(T9)/(S3/2)Y1E

(R03S46) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COMFIC = 304.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBTNC = -.500
 SPACER = 18.160 SPADIA = .200
 SPAGAP = .050

RUN NO. 3214/ 0 RVL = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.254	-10.000	-.07590	.01200	-.05840	.01300	.00000	.00000	.03370
1.254	-8.000	-.05540	.00730	-.02930	-.00050	.00000	.00000	.03150
1.254	-6.000	-.04030	.00460	-.00340	-.01340	.00000	.00000	.03010
1.254	-4.000	-.02740	.00270	.01830	-.02360	.00000	.00000	.02910
1.254	-2.000	-.01730	.00250	.03360	-.03560	.00000	.00000	.02790
1.254	.000	-.00930	.00190	.03550	-.03790	.00000	.00000	.02690
1.254	2.000	-.00060	-.00140	.02920	-.03330	.00000	.00000	.02920
1.254	4.000	.01190	-.00940	.02230	-.02920	.00000	.00000	.03110
1.254	6.000	.02070	-.01200	.01310	-.02190	.00000	.00000	.03020
1.254	8.000	.03180	-.01600	-.00020	-.01410	.00000	.00000	.02990
1.254	10.000	.04530	-.02100	-.02360	-.00180	.00000	.00000	.03140
GRADIENT		.00476	-.00140	.00016	-.00014	.00000	.00000	.00021

NSFC 570 (1A31F) (S3/2)/(03)/(T9)/(S3/2)Y1E

(R03547) (04 OCT 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 304.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 DEBINC = 1.000
 SPACER = 17.169 SPADIA = .200
 SPAGAP = .050

RUN NO. 3215/ 0 RV/L = 6.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.07820	.01380	-.06330	.01960	.00000	.00000	.03160
1.248	-8.000	-.05860	.00960	-.03790	.00740	.00000	.00000	.02970
1.248	-6.000	-.04390	.00730	-.01270	-.00490	.00000	.00000	.02790
1.248	-4.000	-.03170	.00580	.01010	-.01790	.00000	.00000	.02750
1.248	-2.000	-.02150	.00540	.02650	-.02970	.00000	.00000	.02410
1.248	.000	-.01350	.00500	.03040	-.03260	.00000	.00000	.02690
1.248	2.000	-.00660	.00340	.02590	-.03030	.00000	.00000	.02640
1.248	4.000	.00680	-.00560	.01760	-.02410	.00000	.00000	.03120
1.248	6.000	.01660	-.00950	.00990	-.01820	.00000	.00000	.02940
1.248	8.000	.02740	-.01390	-.00360	-.01140	.00000	.00000	.03020
1.248	10.000	.04090	-.01920	-.02290	-.00200	.00000	.00000	.03100
	GRADIENT	.00459	-.00124	.00072	-.00071	.00000	.00000	.00029



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570(1A31F)(S3/2)/(O3)/(T9)/(S3/2)Y1E

(R03548) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 304.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 13.160 SPADIA = .200
 SPAGAP = .950

RUN NO. 3216/ 0 RVL = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.251	-10.000	-.07680	.01250	-.06220	.01710	.00000	.00000	.03120
1.251	-6.000	-.05690	.00630	-.03390	.00410	.00000	.00000	.02990
1.251	-6.000	-.04210	.00390	-.00940	-.00820	.00000	.00000	.02730
1.251	-4.000	-.02960	.00420	.01330	-.02950	.00000	.00000	.02680
1.251	-2.000	-.01990	.00420	.02900	-.03120	.00000	.00000	.02740
1.251	.000	-.01230	.00410	.03290	-.03490	.00000	.00000	.02990
1.251	2.000	-.00430	.00160	.02760	-.03190	.00000	.00000	.02310
1.251	4.000	.00860	-.00700	.01940	-.02560	.00000	.00000	.02940
1.251	6.000	.01780	-.01020	.01000	-.01930	.00000	.00000	.02930
1.251	8.000	.02670	-.01410	-.00250	-.01260	.00000	.00000	.02950
1.251	10.000	.04270	-.02910	-.02340	-.00170	.00000	.00000	.03070
	GRADIENT	.00462	-.00123	.00054	-.00054	.00000	.00000	.00014

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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (S3/21/ (03) / (T9) / (S3/21) 1E

(R83549) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COARFIC = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTIC = .000
 SPACER = 9.100 SPADIA = .200
 SPACAP = .050

RUN NO. 3210/ 0 RM/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.256	-10.000	-.06340	.04350	.07290	-.06240	.00000	.00000	.03970
1.256	-8.000	-.05320	.03500	.06610	-.05820	.00000	.00000	.03640
1.256	-6.000	-.04250	.02700	.05370	-.05350	.00000	.00000	.03350
1.256	-4.000	-.03340	.02040	.05140	-.04910	.00000	.00000	.03190
1.256	-2.000	-.02480	.01420	.04450	-.04440	.00000	.00000	.02350
1.256	.000	-.01540	.00720	.03730	-.03980	.00000	.00000	.02600
1.256	2.000	-.00640	-.00020	.02740	-.03220	.00000	.00000	.02560
1.256	4.000	.00250	-.00830	.01940	-.02390	.00000	.00000	.02430
1.256	6.000	.00800	-.01290	.01550	-.02420	.00000	.00000	.02950
1.256	8.000	.01250	-.01690	.01720	-.02410	.00000	.00000	.02940
1.256	10.000	.01650	-.01940	.02140	-.03320	.00000	.00000	.02590
	GRADIENT	.00451	-.00359	-.00405	.00293	.00000	.00000	-.00050

TABULATED SOURCE DATA - MSFC 570

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(093550) (04 OCT 73)

MSFC 570(1A31F)(S3/2)/(O3)/(T9)/(S3/2)Y1EG

REFERENCE DATA

SREF = .8720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 305.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CFBINC = .300
SPACER = 9.100 SPADIA = .200
SPAGAP = .050

RUN NO. 3220/ 0 RIVL = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.07250	.00920	-.06010	.01620	.00000	.00000	.02990
1.250	-8.000	-.05360	.00560	-.03230	.00350	.00000	.00000	.02760
1.250	-6.000	-.03910	.00340	-.00690	-.00930	.00000	.00000	.02660
1.250	-4.000	-.02670	.00190	.01560	-.02220	.00000	.00000	.02620
1.250	-2.000	-.01710	.00180	.03040	-.03210	.00000	.00000	.02540
1.250	.000	-.00970	.00180	.03230	-.03500	.00000	.00000	.02430
1.250	2.000	-.00300	.00090	.02800	-.03250	.00000	.00000	.02310
1.250	4.000	.00890	-.00690	.02150	-.02740	.00000	.00000	.02770
1.250	6.000	.01870	-.01110	.01240	-.02080	.00000	.00000	.02430
1.250	8.000	.03130	-.01690	-.00200	-.01160	.00000	.00000	.02990
1.250	10.000	.04720	-.02390	-.02440	-.00920	.00000	.00000	.03430
	GRADIENT	.00426	-.00097	.00047	-.00054	.00000	.00000	.00014

MSFC 570 (IAB1F) (S3/2) / (C31/ (T9)) / (S3/2) Y3E

(R85581) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LRFP = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 305.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = .100 SPADIA = .200
 SPACAP = .050

RUN NO. 3209/ 0 RM/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.252	-10.000	-.07860	.01420	-.03590	.01550	.00000	.00000	.03220
1.252	-6.000	-.05990	.01100	-.02490	.00020	.00000	.00000	.03010
1.252	-6.000	-.04460	.00840	.00130	-.01390	.00000	.00000	.02910
1.252	-4.000	-.03180	.00670	.02130	-.02650	.00000	.00000	.02830
1.252	-2.000	-.02230	.00650	.03480	-.03690	.00000	.00000	.02730
1.252	.000	-.01460	.00630	.03700	-.03990	.00000	.00000	.02560
1.252	2.000	-.00640	.00350	.03240	-.03670	.00000	.00000	.02720
1.252	4.000	.00680	-.00430	.02540	-.03140	.00000	.00000	.03240
1.252	6.000	.01700	-.00790	.01620	-.02340	.00000	.00000	.03110
1.252	8.000	.03000	-.01360	-.00040	-.01550	.00000	.00000	.03170
1.252	10.000	.04800	-.02210	-.02250	-.00420	.00000	.00000	.03250
	GRADIENT	.00465	-.00124	.00029	-.00049	.00000	.00000	.00041



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(O3)/(I9)/(S3/2)Y10

(R8352) (04 OCT 75)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 309.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPACAP = .550

RUN NO. 3207/ 2 RN/L = 6.61 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.07610	.01210	-.03480	.01210	.00000	.00000	.03110
1.251	-6.000	-.03740	.00840	-.02660	-.00090	.00000	.00000	.02690
1.251	-6.000	-.04280	.00610	-.00070	-.01440	.00000	.00000	.02720
1.251	-4.000	-.02990	.00440	.02120	-.02740	.00000	.00000	.02670
1.251	-2.000	-.01960	.00400	.03590	-.03740	.00000	.00000	.02690
1.251	.000	-.01200	.00360	.03730	-.03990	.00000	.00000	.02560
1.251	2.000	-.00420	.00140	.03260	-.03690	.00000	.00000	.02760
1.251	4.000	.00960	-.00720	.02500	-.03130	.00000	.00000	.03160
1.251	6.000	.01950	-.01090	.01590	-.02320	.00000	.00000	.03040
1.251	8.000	.03270	-.01720	.00190	-.01590	.00000	.00000	.02990
1.251	10.000	.04920	-.02420	-.02250	-.00350	.00000	.00000	.03130
	GRADIENT	.00471	-.00129	.00021	-.00036	.00000	.00000	.00032

MSFC 570 (1A31F) (S3/2) (C3) / (T9) / (S3/2) Y20

(R93S53) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN. YMRP = 2.3490 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFID = 310.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 21.000 SPADIA = .200
 SPAGAP = .000

RUN NO. 3206/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.07530	.01110	-.03380	.01140	.00000	.00000	.03000
1.246	-8.000	-.05700	.00810	-.02600	-.00150	.00000	.00000	.02930
1.246	-6.000	-.04240	.00590	-.00010	-.01490	.00000	.00000	.02690
1.246	-4.000	-.03000	.00470	.02170	-.02750	.00000	.00000	.02630
1.246	-2.000	-.02050	.00490	.03560	-.03690	.00000	.00000	.02520
1.246	.000	-.01240	.00430	.03650	-.03990	.00000	.00000	.02590
1.246	2.000	-.00460	.00190	.03190	-.03590	.00000	.00000	.02540
1.246	4.000	.00820	-.00350	.02500	-.03070	.00000	.00000	.03190
1.246	6.000	.01890	-.01040	.01600	-.02470	.00000	.00000	.03290
1.246	8.000	.03290	-.01750	.00110	-.01460	.00000	.00000	.03270
1.246	10.000	.04910	-.02400	-.02140	-.00290	.00000	.00000	.03240
	GRADIENT	.00461	-.00117	.00014	-.00026	.00000	.00000	.00063



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2)Y30

(R8354) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 312.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .000
SPACER = .220 SPADIA = .200
SPAGAP = .000

RUN NO. 3208/ 0 RM/L = 6.65 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.251	-10.000	-.07690	.01420	-.05690	.01570	.00000	.00000	.03160
1.251	-8.000	-.06030	.01100	-.02600	.00060	.00000	.00000	.02890
1.251	-6.000	-.04470	.00840	.00120	-.01410	.00000	.00000	.02780
1.251	-4.000	-.03150	.00640	.02180	-.02710	.00000	.00000	.02770
1.251	-2.000	-.02160	.00370	.03470	-.03690	.00000	.00000	.02740
1.251	.000	-.01410	.00330	.03660	-.03970	.00000	.00000	.02630
1.251	2.000	-.00370	.00260	.03190	-.03630	.00000	.00000	.02730
1.251	4.000	.00770	-.00330	.02480	-.03090	.00000	.00000	.03220
1.251	6.000	.01800	-.00900	.01640	-.02360	.00000	.00000	.03160
1.251	8.000	.03120	-.01500	-.00010	-.01560	.00000	.00000	.03130
1.251	10.000	.04820	-.02240	-.02370	-.00400	.00000	.00000	.03230
GRADIENT		.00471	-.00132	.00016	-.00033	.00000	.00000	.00044

WSFC 370 (1A31F) (S3/2) / (G3) / (T9) (U5) / (S3/2) Y1E

(R3S55) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 306.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 SPGTHC = .300
 SPACER = 9.100 SPADIA = .200
 SPACAP = .050

RUN NO. 3203/ 0 RNVL = 6.56 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.239	-10.000	-.08050	.01320	-.06340	.02020	.00000	.00000	.02790
1.239	-6.000	-.06150	.00960	-.03610	.00820	.00000	.00000	.02600
1.239	-6.000	-.04710	.00790	-.01000	-.00550	.00000	.00000	.02610
1.239	-4.000	-.03440	.00630	.01260	-.01930	.00000	.00000	.02720
1.239	-2.000	-.02390	.00500	.02960	-.03150	.00000	.00000	.02750
1.239	.000	-.01550	.00420	.03440	-.03710	.00000	.00000	.02650
1.239	2.000	-.00760	.00220	.03240	-.03730	.00000	.00000	.02690
1.239	4.000	.00480	-.00490	.02590	-.03240	.00000	.00000	.03040
1.239	6.000	.01810	-.01220	.01670	-.02500	.00000	.00000	.03190
1.239	8.000	.03140	-.01920	.00310	-.01910	.00000	.00000	.03000
1.239	10.000	.04900	-.02640	-.01540	-.00740	.00000	.00000	.03140
GRADIENT	.00471	.00471	-.00125	.00147	-.00160	.00000	.00000	.00035



MSFC 570 (1A31F) (S3/2)/(Q3)/(T9) (U3)/(S3/2)Y2E

(R63S36) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF16 = 307.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 9.000 SPADIA = .200
 SPACAP = .050

RUN NO. 3204/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.08100	.01410	-.06340	.02080	.00000	.00000	.03060
1.245	-8.000	-.08230	.01070	-.03560	.00830	.00000	.00000	.02980
1.245	-6.000	-.04800	.00890	-.00950	-.00350	.00000	.00000	.02960
1.245	-4.000	-.03480	.00690	.01300	-.01950	.00000	.00000	.02930
1.245	-2.000	-.02350	.00310	.03020	-.03200	.00000	.00000	.02980
1.245	.000	-.01550	.00440	.03420	-.03710	.00000	.00000	.02920
1.245	2.000	-.00830	.00310	.03190	-.03680	.00000	.00000	.02920
1.245	4.000	.00450	-.00430	.02500	-.03150	.00000	.00000	.03120
1.245	6.000	.01790	-.01160	.01490	-.02450	.00000	.00000	.03230
1.245	8.000	.03150	-.01310	.00160	-.01660	.00000	.00000	.03150
1.245	10.000	.04830	-.02580	-.01770	-.00690	.00000	.00000	.03230
GRADIENT	.00469	-.00122	.00128	-.00128	-.00144	.00000	.00000	.00011

MSFC 570(1A31F) (S3/2)/(03)/(T9) (U5)/(S3/2)Y20

(R03057) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 311.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CP9INC = .500
SPACER = 21.000 SPADIA = .200
SPAGAP = .050

RUN NO. 3205/ 1 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.08070	.01360	-.06350	.02070	.00000	.00000	.03180
1.245	-9.000	-.06180	.01030	-.03370	.00920	.00000	.00000	.03040
1.245	-8.000	-.04750	.00850	-.00970	-.00350	.00000	.00000	.03000
1.245	-7.000	-.03460	.00680	.01300	-.01950	.00000	.00000	.03040
1.245	-6.000	-.02350	.00500	.03010	-.03210	.00000	.00000	.03060
1.245	-5.000	-.01540	.00440	.03420	-.03700	.00000	.00000	.03060
1.245	-4.000	-.00810	.00300	.03150	-.03640	.00000	.00000	.03010
1.245	-3.000	.00500	.00490	.02510	-.03160	.00000	.00000	.03420
1.245	-2.000	.01790	-.01190	.01580	-.02450	.00000	.00000	.03490
1.245	-1.000	.03280	-.01920	.00270	-.01690	.00000	.00000	.03340
1.245	0.000	.05000	-.02720	-.01730	-.00390	.00000	.00000	.03420
1.245	GRADIENT	.00473	-.00126	.00129	-.00142	.00000	.00000	.00035

MSFC 570(1A31F) (S3/2)/(03)/(T9) (S3/2)

(R03059) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 300.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CP9INC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3257/ 0 RN/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.997	-.090	-.00540	-.00140	.02690	-.03600	.00000	.00000	.01840
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3256/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-.090	-.01380	.00940	.03900	-.04080	.00000	.00000	.03900
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



MSFC 570(1A31F) (S3/2) / (C3) / (T9) (S3/2)

(R3359) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XWRP = 2.5490 IN.
LREF = 3.3130 IN. YWRP = .0000 IN.
BREF = 3.3130 IN. ZWRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA	=	.000	CONFIC	=	314.000
DELTAZ	=	.140	RUDDER	=	.000
X-SRB	=	.000	CASINC	=	.000
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.000			

RUN NO. 3294/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 3289/ 0 RN/L = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

REFERENCE DATA

SREF = .9720 SQ. IN XWRP = 2.3490 IN.
LREF = 5.3130 IN. YWRP = .0000 IN.
BREF = 5.3130 IN. ZWRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	314.000
DELAZ	=	.140	RUDDER	=	.000
X-SFB	=	.000	CRBINC	=	.490
SPACER	=	.000	SEADIA	=	.000
SPACAP	=	.000			

RUN NO. 3347/ 0 R/V/L = 3.01 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 3346/ 0 RW/L = 5.95 GRADIENT INTERVAL = -5.09/ 5.00

[illegible]

RUN NO. 3345/ 0 RVL = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

MSFC 570 (1A31F) (S3/2)/(C3)/(T9) (S3/2)

(R93560) (14 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 314.000
DELTA Z = .140 RUDDER = .000
X-SRB = .000 CRDINC = .900
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3343/ 0 RV/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-.120	-.00770	.00090	.04060	-.04120	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3344/ 0 RV/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-.140	-.01340	.00630	.03970	-.04220	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3345/ 0 RV/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-.110	-.01460	.00990	.03690	-.04000	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3351/ 0 RV/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.954	-.120	-.01340	.00710	.02490	-.02790	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3352/ 0 RV/L = 4.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.080	-.01160	.00370	.02260	-.02520	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3353/ 0 RV/L = 5.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.01190	.01090	.01370	-.01790	.00000	.00000	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



NSFC 970 (1A31F) (S3/2)/(G31)/(T9)/(S3/2) G

(R93561) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 326.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3281/ 0 RNL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.05540	.01580	-.02630	.01070	.00000	.00000	.03510
.598	-8.000	-.04200	.01070	-.00900	-.00200	.00000	.00000	.03370
.598	-6.000	-.02890	.00490	.01170	-.01310	.00000	.00000	.03130
.598	-4.000	-.01540	-.00140	.02590	-.02280	.00000	.00000	.03070
.598	-2.000	-.00400	-.00370	.03370	-.03030	.00000	.00000	.02990
.598	.000	.00330	-.00940	.03100	-.02970	.00000	.00000	.02970
.598	2.000	.01060	-.01140	.02470	-.02530	.00000	.00000	.02940
.598	4.000	.01880	-.01590	.01980	-.02060	.00000	.00000	.03130
.598	6.000	.02750	-.01910	.01400	-.01470	.00000	.00000	.03190
.598	8.000	.03540	-.02090	.00300	-.00490	.00000	.00000	.03460
.598	10.000	.04370	-.02270	-.01390	.00770	.00000	.00000	.03400
GRADIENT	.00415	-.00175	-.00105	-.00105	.00047	.00000	.00000	.00005

RUN NO. 3280/ 0 RNL = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.000	-.05630	.01580	-.04450	.01290	.00000	.00000	.03390
.802	-8.000	-.04430	.01230	-.01960	-.00030	.00000	.00000	.03180
.802	-6.000	-.03170	.00730	.00250	-.01210	.00000	.00000	.03110
.802	-4.000	-.01950	.00170	.01890	-.02180	.00000	.00000	.02940
.802	-2.000	-.00990	-.00230	.02910	-.02820	.00000	.00000	.02860
.802	.000	-.00070	-.00530	.02940	-.02990	.00000	.00000	.02810
.802	2.000	.00930	-.01090	.02520	-.02570	.00000	.00000	.02930
.802	4.000	.01830	-.01590	.01890	-.02060	.00000	.00000	.03070
.802	6.000	.02510	-.01730	.01310	-.01540	.00000	.00000	.03100
.802	8.000	.03360	-.01990	.00100	-.00620	.00000	.00000	.03290
.802	10.000	.04280	-.02230	-.01760	.00560	.00000	.00000	.03390
GRADIENT	.00474	-.00219	-.00019	-.00019	.00025	.00000	.00000	.00016

MSFC 570 (1A31F) (S3/2)/(G3)/(T9)/(S3/2) G

(R03561) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 326.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CRBTNC = .500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 3279/ 0 RM/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.06030	.01700	-.04870	.01220	.00000	.00000	.03560
.901	-8.000	-.04840	.01450	-.02530	.00100	.00000	.00000	.03350
.901	-6.000	-.03670	.01120	-.00260	-.01030	.00000	.00000	.03210
.901	-4.000	-.02390	.00520	.01340	-.01910	.00000	.00000	.03110
.901	-2.000	-.01270	.00000	.02450	-.02620	.00000	.00000	.02970
.901	.000	-.00260	-.00450	.02980	-.02940	.00000	.00000	.02900
.901	2.000	.00670	-.00930	.02560	-.02560	.00000	.00000	.03020
.901	4.000	.01690	-.01480	.02090	-.02300	.00000	.00000	.03090
.901	6.000	.02420	-.01720	.01260	-.01630	.00000	.00000	.03190
.901	8.000	.03560	-.02230	-.00110	-.00710	.00000	.00000	.03410
.901	10.000	.04320	-.02580	-.02180	.00460	.00000	.00000	.03620
GRADIENT		.00503	-.00246	.00080	-.00042	.00000	.00000	.00001

RUN NO. 3277/ 0 RM/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-.06780	.01900	-.04160	.00930	.00000	.00000	.02920
1.051	-8.000	-.05430	.01700	-.01610	-.00330	.00000	.00000	.02470
1.051	-6.000	-.04170	.01450	.00790	-.01670	.00000	.00000	.02370
1.051	-4.000	-.02940	.01060	.02570	-.02740	.00000	.00000	.02340
1.051	-2.000	-.01800	.00530	.03480	-.03420	.00000	.00000	.02420
1.051	.000	-.00910	.00220	.03450	-.03350	.00000	.00000	.02310
1.051	2.000	.00230	-.00400	.02740	-.02370	.00000	.00000	.02190
1.051	4.000	.01370	-.01570	.02080	-.02430	.00000	.00000	.02130
1.051	6.000	.02450	-.01630	.01300	-.01840	.00000	.00000	.02340
1.051	8.000	.03740	-.02280	-.00590	-.00960	.00000	.00000	.02340
1.051	10.000	.05100	-.02900	-.02030	.00120	.00000	.00000	.02560
GRADIENT		.00532	-.00264	-.00086	.00053	.00000	.00000	-.00033



MSFC 370 (1A31F) (S3/2)/(C3)/(T9)/(S3/2) G

(R83S81) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 326.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3278/ 0 RM/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.252	-10.000	-.07310	.01610	-.03510	.01400	.00000	.00000	.04260
1.252	-8.000	-.05530	.01220	-.02390	-.00020	.00000	.00000	.04040
1.252	-6.000	-.04040	.00960	.00270	-.01550	.00000	.00000	.04140
1.252	-4.000	-.02910	.00730	.02560	-.03070	.00000	.00000	.04170
1.252	-2.000	-.02090	.00780	.03910	-.04130	.00000	.00000	.04040
1.252	.000	-.01290	.00620	.03720	-.04000	.00000	.00000	.03990
1.252	2.000	-.00280	.00100	.03090	-.03470	.00000	.00000	.04030
1.252	4.000	.00750	-.00400	.02480	-.02990	.00000	.00000	.04410
1.252	6.000	.01730	-.00780	.01690	-.02450	.00000	.00000	.04490
1.252	8.000	.03270	-.01590	.00130	-.01530	.00000	.00000	.04320
1.252	10.000	.05160	-.02570	-.02030	-.00370	.00000	.00000	.04470
GRADIENT	.00456	-.00147	-.00147	-.00044	.00041	.00000	.00000	.00023

RUN NO. 3348/ 0 RM/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.458	-.110	-.01460	.00890	.03690	-.04000	.00000	.00000	.04040
GRADIENT	.13273	-.08000	-.33543	.36364	.00000	.00000	.00000	-.36727

MSFC 570 (1A31F) (S3/2)/(O3)/(T9)/(S3/2) G

(R03S62) (14 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
.93130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

ALPHA = .000 COAFIG = 326.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 EEDINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3273/ 0 RN/L = 4.97 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.599	-10.000	-.03220	.01720	.06310	-.05410	-.00390	.00000	.03120
.599	-8.000	-.02390	.01100	.05660	-.04910	-.00430	.00000	.03050
.599	-6.000	-.01590	.00550	.05030	-.04410	-.00290	.00000	.03040
.599	-4.000	-.00910	.00030	.04370	-.03920	-.00160	.00000	.02990
.599	-2.000	-.00340	-.00300	.03550	-.03390	-.00060	.00000	.02760
.599	.000	.00390	-.00780	.03050	-.02950	.00050	.00000	.02760
.599	2.000	.00750	-.01070	.02240	-.02360	.00130	.00000	.02410
.599	4.000	.01090	-.01310	.01390	-.01770	.00190	.00000	.02390
.599	6.000	.01290	-.01390	.01090	-.01640	.00230	.00000	.02150
.599	8.000	.01430	-.01450	.01130	-.01930	.00250	.00000	.02110
.599	10.000	.01940	-.01780	.01610	-.02330	.00330	.00000	.02040
GRADIENT		.00253	-.00174	-.00359	.00267	.00044	.00000	-.00057

RUN NO. 3274/ 0 RN/L = 5.97 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.903	-10.000	-.03760	.02150	.06350	-.05510	-.00690	.00000	.02890
.903	-8.000	-.02950	.01590	.05710	-.05040	-.00340	.00000	.02530
.903	-6.000	-.02130	.01000	.05060	-.04520	-.00390	.00000	.02570
.903	-4.000	-.01390	.00470	.04340	-.03980	-.00250	.00000	.02490
.903	-2.000	-.00790	.00070	.03630	-.03390	-.00140	.00000	.02340
.903	.000	.00120	-.00420	.02920	-.02790	-.00020	.00000	.02170
.903	2.000	.00570	-.00940	.02190	-.02290	.00100	.00000	.02000
.903	4.000	.01050	-.01330	.01390	-.01750	.00190	.00000	.01900
.903	6.000	.01230	-.01360	.01120	-.01640	.00220	.00000	.01920
.903	8.000	.01440	-.01470	.01330	-.01970	.00250	.00000	.01910
.903	10.000	.01920	-.01910	.02120	-.02730	.00330	.00000	.01730
GRADIENT		.00311	-.00230	-.00369	.00276	.00055	.00000	-.00076



MSFC 370 (1A31F) (S3/2)/(C3)/(T3)/(S3/2) 6

(R83S62) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0003 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 326.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .000
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3273/ 0 RM/L = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.03990	.02310	.06340	-.03490	-.00730	.00000	.02490
.900	-8.000	-.03140	.01740	.05680	-.04950	-.00570	.00000	.02230
.900	-6.000	-.02390	.01210	.05020	-.04440	-.00430	.00000	.02040
.900	-4.000	-.01570	.00530	.04340	-.03930	-.00240	.00000	.01930
.900	-2.000	-.00970	.00190	.03590	-.03350	-.00170	.00000	.01920
.900	.000	-.00300	-.00270	.02970	-.02410	-.00050	.00000	.01910
.900	2.000	.00280	-.00790	.01820	-.02040	.00050	.00000	.01540
.900	4.000	.00790	-.01140	.01120	-.01550	.00140	.00000	.01350
.900	6.000	.01020	-.01250	.01090	-.01640	.00180	.00000	.01180
.900	8.000	.01230	-.01270	.01300	-.02140	.00220	.00000	.01110
.900	10.000	.01690	-.01660	.02370	-.02940	.00300	.00000	.01020
.900	GRADIENT	.0029%	-.00226	-.00410	.00304	.00053	.00000	-.00077

RUN NO. 3276/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.030	-10.000	-.05300	.03370	.07730	-.06770	-.00970	.00000	.03270
1.030	-8.000	-.04300	.02700	.06930	-.06200	-.00740	.00000	.03040
1.030	-6.000	-.03420	.02090	.06290	-.05760	-.00620	.00000	.03120
1.030	-4.000	-.02430	.01360	.05540	-.05210	-.00440	.00000	.02990
1.030	-2.000	-.01620	.00790	.04620	-.04480	-.00290	.00000	.02650
1.030	.000	-.00940	.00300	.03620	-.03700	-.00170	.00000	.02370
1.030	2.000	-.00150	-.00270	.02670	-.03000	.00020	.00000	.02090
1.030	4.000	.00530	-.00880	.01980	-.02520	.00090	.00000	.02200
1.030	6.000	.00900	-.01120	.01710	-.02430	.00160	.00000	.02010
1.030	8.000	.01130	-.01220	.01980	-.02810	.00200	.00000	.01930
1.030	10.000	.01560	-.01490	.02440	-.03260	.00290	.00000	.01610
1.030	GRADIENT	.00369	-.00277	-.00454	.00343	.00066	.00000	-.00107

MSFC 370 (IASIF) (S3/2)/(O31)/(T9)/(S3/2) 6

(R93562) (14 SEP 73)

REFERENCE DATA

SREF = .9720 SQ. IN
LREF = 3.3130 IN.
BREF = 3.3130 IN.
SCALE = .0040

ALPHA = .000
DELTA Z = .140
X-SRB = .000
SPACER = .000
SPAGAP = .000

COARFIC = 325.000
RUDDER = .000
JODINC = .500
SPADIA = .000

PARAMETRIC DATA

RUN NO. 3272/ 0 RN/L = 5.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.03240	.03590	.07760	-.06900	-.00950	.00000	.03250
1.253	-8.000	-.04250	.02960	.06990	-.06220	-.00770	.00000	.03270
1.253	-6.000	-.03320	.02160	.06140	-.05740	-.00600	.00000	.03240
1.253	-4.000	-.02530	.01610	.05450	-.05290	-.00460	.00000	.03190
1.253	-2.000	-.01670	.01150	.04770	-.04910	-.00340	.00000	.03020
1.253	.000	-.01260	.00710	.03970	-.04220	-.00230	.00000	.02730
1.253	2.000	-.00590	.00180	.03060	-.03490	-.00100	.00000	.02390
1.253	4.000	.00130	-.00390	.02260	-.02890	.00020	.00000	.02640
1.253	6.000	.00580	-.00780	.02000	-.02930	.00100	.00000	.02460
1.253	8.000	.00980	-.01090	.02220	-.03170	.00190	.00000	.02290
1.253	10.000	.01450	-.01450	.02970	-.03790	.00260	.00000	.02050
GRADIENT		.00330	-.00248	-.00435	.00306	.00360	.00000	-.00077

RUN NO. 3283/ 0 RN/L = 4.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.04890	.04290	.05190	-.04390	-.00990	.00000	.01070
3.480	-8.000	-.04320	.03710	.04690	-.04060	-.00790	.00000	.01120
3.480	-6.000	-.03750	.03150	.04060	-.03660	-.00690	.00000	.01130
3.480	-4.000	-.03050	.02480	.03460	-.03270	-.00550	.00000	.01150
3.480	-2.000	-.02340	.01770	.02910	-.02790	-.00420	.00000	.01140
3.480	.000	-.01470	.00930	.02140	-.02330	-.00260	.00000	.01100
3.480	2.000	-.00780	.00270	.01420	-.01940	-.00140	.00000	.01510
3.480	4.000	.00110	-.00260	.00190	-.00740	.00020	.00000	.01790
3.480	6.000	.00040	-.00090	.00050	-.00130	.00030	.00000	.01360
3.480	8.000	.00230	-.00130	.00130	-.00150	.00040	.00000	.01500
3.480	10.000	.00580	-.00380	.00040	-.00090	.00120	.00000	.01790
GRADIENT		.00394	-.00349	-.00434	.00301	.00071	.00000	-.00775



DATE 03 NOV 74

TABULATED SOURCE DATA - MSFC 370

PAGE 413

MSFC 370 (1A31F) (S3/2)/(O3)/(110)/(S3/2)

(H93S63) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 315.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CABINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3305/ 0 RM/L = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.03190	.00970	-.05510	.02110	.00000	.00000	.03160
.902	-8.000	-.03940	.00630	-.03330	.01170	.00000	.00000	.02990
.902	-6.000	-.02960	.00380	-.01350	.00230	.00000	.00000	.02900
.902	-4.000	-.02490	.00230	-.00790	.00210	.00000	.00000	.02860
.902	-2.000	-.01890	-.00020	-.00050	-.00690	.00000	.00000	.02810
.902	0.000	-.00730	-.00320	.01070	-.01160	.00000	.00000	.02700
.902	2.000	.00030	-.00760	.01390	-.01310	.00000	.00000	.02650
.902	4.000	.02060	-.01960	.00580	-.00690	.00000	.00000	.02600
.902	6.000	.02480	-.02050	.00210	-.00410	.00000	.00000	.03080
.902	8.000	.02970	-.02200	-.00240	-.00040	.00000	.00000	.03170
.902	10.000	.04510	-.02710	-.01730	.00340	.00000	.00000	.03440
GRADIENT	.00491	-.00226	.00083	-.00013	.00000	.00000	.00000	.00026

RUN NO. 3306/ 0 RM/L = 6.32 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.06080	.01320	-.04430	.01790	.00000	.00000	.02460
1.050	-8.000	-.04770	.01070	-.02310	.00790	.00000	.00000	.02340
1.050	-6.000	-.03530	.00790	-.00390	-.00200	.00000	.00000	.02160
1.050	-4.000	-.02910	.00620	.00460	-.00690	.00000	.00000	.02040
1.050	-2.000	-.01270	.00100	.01730	-.01360	.00000	.00000	.01990
1.050	0.000	-.00240	-.00360	.01600	-.01580	.00000	.00000	.02050
1.050	2.000	.00930	-.01130	.00950	-.01110	.00000	.00000	.02240
1.050	4.000	.02080	-.01870	.00370	-.00660	.00000	.00000	.02390
1.050	6.000	.02560	-.02110	.00020	-.00380	.00000	.00000	.02480
1.050	8.000	.03070	-.02360	-.00440	-.00040	.00000	.00000	.02600
1.050	10.000	.04130	-.02470	-.01750	.00810	.00000	.00000	.02700
GRADIENT	.00549	-.00282	.00074	-.00074	.00000	.00000	.00000	.00050

(R93563) (04 OCT 73)

MSFC 570 (1A31F) (S3/2)/(03)/(T10)/(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CMFIC = 315.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTHC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3304/ 0 RN/L = 6.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.06450	.00740	-.05700	.02140	.00000	.00000	.04220
1.249	-8.000	-.04800	.00420	-.03010	.00810	.00000	.00000	.04110
1.249	-6.000	-.03440	.00190	-.00620	-.00440	.00000	.00000	.03940
1.249	-5.000	-.02870	.00110	.00370	-.01010	.00000	.00000	.03430
1.249	-4.000	-.02360	.00090	.01250	-.01560	.00000	.00000	.03790
1.249	-3.000	-.01570	.00150	.02240	-.02240	.00000	.00000	.03550
1.249	2.000	-.00970	.00220	.02160	-.02330	.00000	.00000	.03540
1.249	4.000	.00950	-.00770	.00990	-.01350	.00000	.00000	.03460
1.249	5.000	.01430	-.00970	.00550	-.01120	.00000	.00000	.04140
1.249	5.000	.01990	-.01230	.00060	-.00790	.00000	.00000	.04300
1.249	5.000	.03390	-.01990	-.01470	.00180	.00000	.00000	.04210
1.249	10.000	.04900	-.02620	-.03610	.01230	.00000	.00000	.04350
1.249	GRADIENT	.00417	-.00103	-.00020	.00012	.00000	.00000	.00045



MSFC 570 (1A31F) (S3/2)/(C3)/(T10)/(S3/2)

(R83564) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFIG = 315.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3309/ 0 RV/L = 6.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.04580	.02360	.04920	-.04100	-.00630	.00000	.03950
.900	-8.000	-.03690	.01760	.04250	-.03630	-.00670	.00000	.03720
.900	-6.000	-.02880	.01190	.03550	-.03090	-.00320	.00000	.03480
.900	-4.000	-.02010	.00690	.02860	-.02520	-.00360	.00000	.03260
.900	-2.000	-.01320	.00250	.02200	-.01960	-.00240	.00000	.03030
.900	.000	-.00700	-.00160	.01480	-.01400	-.00120	.00000	.02810
.900	2.000	-.00060	-.00390	.00930	-.01030	-.00010	.00000	.02790
.900	4.000	.00500	-.01010	.00270	-.00370	.00000	.00000	.02490
.900	6.000	.00910	-.01260	-.00220	-.00270	.00160	.00000	.02920
.900	8.000	.01110	-.01400	-.00340	-.00350	.00200	.00000	.02910
.900	10.000	.01150	-.01390	.00150	-.00980	.00210	.00000	.02790
GRADIENT	.00314	-.00211	-.00322	.00241	.00036	.00000	.00000	-.00039

RUN NO. 3307/ 0 RV/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	-.05110	.02870	.05570	-.04460	-.00930	.00000	.03360
1.053	-8.000	-.04100	.02190	.04980	-.04040	-.00750	.00000	.03490
1.053	-6.000	-.03200	.01610	.04240	-.03520	-.00580	.00000	.03140
1.053	-4.000	-.02370	.01060	.03550	-.03030	-.00430	.00000	.03070
1.053	-2.000	-.01590	.00550	.02790	-.02470	-.00290	.00000	.02990
1.053	.000	-.00740	-.00050	.01900	-.01760	-.00130	.00000	.02550
1.053	2.000	.00110	-.00750	.01160	-.01250	.00020	.00000	.02290
1.053	4.000	.00810	-.01290	.00480	-.00820	.00140	.00000	.02070
1.053	6.000	.01160	-.01490	.00130	-.00680	.00210	.00000	.02260
1.053	8.000	.01470	-.01640	.00160	-.00900	.00260	.00000	.02050
1.053	10.000	.01860	-.01590	.00970	-.01740	.00340	.00000	.01930
GRADIENT	.00403	-.00300	-.00389	.00282	.00072	.00000	.00000	-.00131

WSFC 570(1331F) (S3/2)/(O3)/(T10)/(S3/2)

(R33564) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFLG = 315.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 JF9INC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3308/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.02/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.06540	.04050	.03940	-.04750	-.01190	.00000	.05020
1.250	-8.000	-.03270	.03120	.02220	-.04290	-.00960	.00000	.04930
1.250	-6.000	-.04120	.02300	.04570	-.03930	-.00750	.00000	.04750
1.250	-4.000	-.03190	.01550	.03990	-.03610	-.00590	.00000	.04590
1.250	-2.000	-.02330	.01080	.03410	-.03270	-.00420	.00000	.04290
1.250	.000	-.01610	.00590	.02770	-.02970	-.00290	.00000	.03970
1.250	2.000	-.00990	.00060	.01990	-.02390	-.00160	.00000	.03620
1.250	4.000	-.00030	-.00650	.01280	-.01790	.00000	.00000	.03450
1.250	6.000	.00650	-.01170	.00910	-.01550	.00120	.00000	.04090
1.250	8.000	.01100	-.01500	.00670	-.01590	.00200	.00000	.03990
1.250	10.000	.01560	-.01910	.00320	-.01860	.00300	.00000	.03810
	GRADIENT	.00397	-.00291	-.00345	.00231	.00071	.00000	-.00105



MSFC 570 (1A31F) (S3/2)/(03) (T9)/(S3/2)

(H03S65) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3233/ 0 RIVL = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.598	-10.000	-.06430	.02100	-.01980	.00170	.00000	.00000	.03670
.598	-8.000	-.03190	.01750	.00240	-.01110	.00000	.00000	.03360
.598	-6.000	-.03870	.01210	.02160	.00000	.00000	.00000	.03230
.598	-5.000	-.03210	.00990	.02940	-.02860	.00000	.00000	.03120
.598	-4.000	-.02600	.00710	.03590	-.03300	.00000	.00000	.03060
.598	-2.000	-.01570	.00320	.04230	-.03910	.00000	.00000	.03090
.598	.000	-.00520	-.00100	.04180	-.04020	.00000	.00000	.03090
.598	2.000	.00490	-.00630	.03890	-.03740	.00000	.00000	.02810
.598	4.000	.01300	-.01000	.03310	-.03360	.00000	.00000	.02900
.598	5.000	.01800	-.01220	.03100	-.03060	.00000	.00000	.02870
.598	6.000	.02270	-.01410	.02720	-.02670	.00000	.00000	.02870
.598	8.000	.03110	-.01640	.01420	-.01540	.00000	.00000	.02990
.598	10.000	.04160	-.01920	-.00440	-.00230	.00000	.00000	.03130
.598	GRADIENT	.00497	-.00218	-.00014	-.00010	.00000	.00000	-.00026

RUN NO. 3322/ 0 RIVL = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.804	-10.000	-.06170	.01820	-.03690	-.00070	.00000	.00000	.03560
.804	-8.000	-.04960	.01560	-.01320	-.01290	.00000	.00000	.03340
.804	-6.000	-.03900	.01280	.00940	-.02360	.00000	.00000	.03330
.804	-5.000	-.03330	.01060	.01810	-.02870	.00000	.00000	.03310
.804	-4.000	-.02740	.00810	.02640	-.03330	.00000	.00000	.03290
.804	-2.000	-.01610	.00300	.03820	-.04090	.00000	.00000	.03090
.804	.000	-.00640	-.00090	.04320	-.04390	.00000	.00000	.03060
.804	2.000	.00580	-.00730	.04330	-.04320	.00000	.00000	.03220
.804	4.000	.01490	-.01070	.03230	-.03380	.00000	.00000	.03090
.804	5.000	.01990	-.01240	.02790	-.03010	.00000	.00000	.03030
.804	6.000	.02450	-.01410	.02100	-.02370	.00000	.00000	.03040
.804	8.000	.03480	-.01740	.00490	-.01920	.00000	.00000	.03190
.804	10.000	.04990	-.02100	-.02060	-.00030	.00000	.00000	.03320
.804	GRADIENT	.00530	-.00234	.00099	-.00016	.00000	.00000	-.00021

MSFC 570 (1A31F) (S3/2)/(C3) (T9)/(S3/2)

(MS3S65) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COAFIG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3232/ 0 RN/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.900	-10.000	-.06040	.01480	-.04120	-.00260	.00000	.00000	.02660
.900	-8.000	-.04900	.01290	-.01690	-.01250	.00000	.00000	.02640
.900	-6.000	-.03910	.01220	.00460	-.02310	.00000	.00000	.02690
.900	-5.000	-.03390	.01090	.01360	-.02740	.00000	.00000	.02690
.900	-4.000	-.02660	.00900	.02130	-.03120	.00000	.00000	.02590
.900	-2.000	-.01720	.00410	.03260	-.03730	.00000	.00000	.02550
.900	.000	-.00650	-.00090	.03650	-.04040	.00000	.00000	.02500
.900	2.000	.00460	-.00690	.03770	-.03980	.00000	.00000	.02460
.900	4.000	.01730	-.01460	.03340	-.03630	.00000	.00000	.02390
.900	5.000	.02160	-.01630	.02990	-.03240	.00000	.00000	.02350
.900	6.000	.02610	-.01810	.02320	-.02810	.00000	.00000	.02350
.900	8.000	.03610	-.02130	.00660	-.01860	.00000	.00000	.02730
.900	10.000	.04570	-.02400	-.01330	-.00550	.00000	.00000	.03010
GRADIENT		.00351	-.00262	.00150	-.00056	.00000	.00000	-.00005

RUN NO. 3231/ 0 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.047	-10.000	-.06890	.01820	-.03750	-.00360	.00000	.00000	.01920
1.047	-8.000	-.05530	.01600	-.01160	-.01540	.00000	.00000	.01810
1.047	-6.000	-.04460	.01320	.01240	-.02640	.00000	.00000	.01600
1.047	-5.000	-.03970	.01510	.02350	-.03150	.00000	.00000	.01540
1.047	-4.000	-.03430	.01420	.03240	-.03620	.00000	.00000	.01470
1.047	-2.000	-.02240	.01050	.04360	-.04410	.00000	.00000	.01300
1.047	.000	-.01150	.00600	.04350	-.04590	.00000	.00000	.01230
1.047	2.000	.00060	-.00150	.03770	-.04180	.00000	.00000	.01180
1.047	4.000	.01360	-.00990	.03000	-.03320	.00000	.00000	.01030
1.047	5.000	.01950	-.01340	.02560	-.03130	.00000	.00000	.01120
1.047	6.000	.02530	-.01660	.01970	-.02690	.00000	.00000	.01240
1.047	8.000	.03760	-.02210	.00320	-.01610	.00000	.00000	.01500
1.047	10.000	.05060	-.02700	-.02010	-.00250	.00000	.00000	.01940
GRADIENT		.00593	-.00292	-.00012	.00011	.00000	.00000	-.00046



MSFC 570 (1A31F) (S3/2)/(G3) (T9)/(S3/2)

(M03S65) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CGNFIG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBLNC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO: 3230/ 0 RVL = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	-.07870	.01770	-.05440	.00140	.00000	.00000	.03000
1.247	-8.000	-.06100	.01400	-.02620	-.01090	.00000	.00000	.02770
1.247	-6.000	-.04710	.01130	.00090	-.02360	.00000	.00000	.02730
1.247	-5.000	-.04110	.01070	.01400	-.03010	.00000	.00000	.02730
1.247	-4.000	-.03560	.01030	.02390	-.03660	.00000	.00000	.02730
1.247	-2.000	-.02370	.01020	.04300	-.04730	.00000	.00000	.02720
1.247	.000	-.01620	.00980	.04620	-.05010	.00000	.00000	.02610
1.247	2.000	-.00690	.00490	.04140	-.04680	.00000	.00000	.02920
1.247	4.000	.00700	-.00390	.03390	-.04120	.00000	.00000	.03090
1.247	5.000	.01240	-.00630	.03090	-.03920	.00000	.00000	.03120
1.247	6.000	.01840	-.00900	.02600	-.03610	.00000	.00000	.03160
1.247	8.000	.03370	-.01610	.00920	-.02630	.00000	.00000	.03290
1.247	10.000	.04760	-.02120	-.01780	-.01220	.00000	.00000	.03560
GRADIENT		.00329	-.00169	.00126	-.00070	.00000	.00000	.00042

RUN NO: 3324/ 0 RVL = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-10.000	-.08890	.02660	-.05460	.00620	.00000	.00000	.03970
1.461	-8.000	-.06680	.01990	-.02840	-.00770	.00000	.00000	.03900
1.461	-6.000	-.04970	.01400	.00030	-.02390	.00000	.00000	.03750
1.461	-5.000	-.04300	.01280	.01360	-.03130	.00000	.00000	.03760
1.461	-4.000	-.03770	.01260	.02330	-.03900	.00000	.00000	.03770
1.461	-2.000	-.02940	.01340	.04230	-.04790	.00000	.00000	.03820
1.461	.000	-.02170	.01410	.04860	-.05120	.00000	.00000	.03910
1.461	2.000	-.01130	.01070	.04300	-.04770	.00000	.00000	.04040
1.461	4.000	.00310	.00000	.03380	-.04240	.00000	.00000	.04510
1.461	5.000	.01220	-.00340	.02930	-.03970	.00000	.00000	.04400
1.461	6.000	.01910	-.00640	.02340	-.03620	.00000	.00000	.04330
1.461	8.000	.03240	-.01070	.00350	-.02690	.00000	.00000	.04390
1.461	10.000	.04640	-.01480	-.02030	-.01420	.00000	.00000	.04470
GRADIENT		.00337	-.00132	.00129	-.00066	.00000	.00000	.00073

MSFC 570 (1A31F) (S3/2)/(G3) (T9)/(S3/2)

(483565) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CARBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3234/ 0 RN/L = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.969	-10.000	-.10360	.03650	-.05580	.01990	.00000	.00000	.02180
1.969	-8.000	-.07690	.02630	-.04030	.01000	.00000	.00000	.01960
1.969	-6.000	-.04950	.01930	-.01800	-.00470	.00000	.00000	.01900
1.969	-4.000	-.03100	.01760	-.00550	-.01320	.00000	.00000	.02010
1.969	-2.000	-.04400	.01630	.00600	-.02060	.00000	.00000	.02100
1.969	.000	-.03160	.01470	.02450	-.03320	.00000	.00000	.02040
1.969	2.000	-.02070	.01320	.03290	-.03930	.00000	.00000	.02120
1.969	4.000	-.01090	.01070	.03250	-.04030	.00000	.00000	.02340
1.969	6.000	-.00160	.00830	.02980	-.03960	.00000	.00000	.02510
1.969	8.000	.00490	.00570	.02340	-.03510	.00000	.00000	.02540
1.969	10.000	.01260	.00250	.01630	-.03030	.00000	.00000	.02590
1.969	GRADIENT	.03130	-.00340	-.00240	-.01680	.00000	.00000	.02560
		.05480	-.01600	-.02390	-.00410	.00000	.00000	.00054
		.00545	-.00111	.00240	-.00220	.00000	.00000	

RUN NO. 3333/ 0 RN/L = 4.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.10410	.04850	-.03300	.01080	.00000	.00000	.01630
2.990	-8.000	-.08470	.03850	-.02700	.00910	.00000	.00000	.01620
2.990	-6.000	-.06360	.02700	-.01920	.00470	.00000	.00000	.01610
2.990	-4.000	-.03340	.02170	-.01220	.00070	.00000	.00000	.01610
2.990	-2.000	-.04420	.01700	-.00480	-.00460	.00000	.00000	.01610
2.990	.000	-.02840	.01070	.01210	-.01770	.00000	.00000	.01590
2.990	2.000	-.01660	.00700	.02560	-.02840	.00000	.00000	.01570
2.990	4.000	-.00900	.00630	.02960	-.03250	.00000	.00000	.01560
2.990	6.000	.00170	.00300	.02630	-.03100	.00000	.00000	.01530
2.990	8.000	.00550	.00240	.02280	-.02900	.00000	.00000	.01490
2.990	10.000	.01080	.00090	.01840	-.02590	.00000	.00000	.01460
2.990	GRADIENT	.02590	-.00570	.00630	-.01640	.00000	.00000	.01460
		.04690	-.01680	-.00980	-.00250	.00000	.00000	.01340
		.00577	-.00178	.00372	-.00315	.00000	.00000	.00011



MSFC 570 (1A31F) (S3/2)/(03) (T9)/(S3/2)

(M93563) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3235/ 0 RM/L = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.09700	.04570	-.03520	.01190	.00000	.00000	.00330
3.480	-8.000	-.07870	.03650	-.02820	.00910	.00000	.00000	.00640
3.480	-6.000	-.05960	.02860	-.01970	.00530	.00000	.00000	.00750
3.480	-5.000	-.04990	.02160	-.01400	.00180	.00000	.00000	.00790
3.480	-4.000	-.04100	.01700	-.00760	-.00240	.00000	.00000	.00940
3.480	-2.000	-.02570	.00960	.00670	-.01340	.00000	.00000	.00920
3.480	.000	-.01420	.00630	.01940	-.02410	.00000	.00000	.01040
3.480	2.000	-.00580	.00330	.02220	-.02760	.00000	.00000	.00940
3.480	4.000	.00410	.00150	.01840	-.02560	.00000	.00000	.01120
3.480	5.000	.00850	.00030	.01460	-.02300	.00000	.00000	.01140
3.480	6.000	.01400	-.00140	.01050	-.01990	.00000	.00000	.01150
3.480	8.000	.03010	-.00830	.00170	-.01250	.00000	.00000	.01110
3.480	10.000	.04810	-.01670	-.00700	-.00630	.00000	.00000	.01120
GRADIENT		.00569	-.00197	.00309	-.00272	.00000	.00000	.00032

RUN NO. 3332/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.07430	.04060	-.02190	.00400	.00000	.00000	.00420
4.960	-8.000	-.06510	.03620	-.01860	.00460	.00000	.00000	.00490
4.960	-6.000	-.05200	.02920	-.01260	.00170	.00000	.00000	.00510
4.960	-5.000	-.04330	.02410	-.00850	-.00110	.00000	.00000	.00510
4.960	-4.000	-.03600	.02010	-.00360	-.00460	.00000	.00000	.00510
4.960	-2.000	-.02510	.01590	.00760	-.01300	.00000	.00000	.00510
4.960	.000	-.01480	.01150	.01530	-.01980	.00000	.00000	.00500
4.960	2.000	-.00620	.00830	.01500	-.02010	.00000	.00000	.00500
4.960	4.000	.00460	.00240	.01080	-.01700	.00000	.00000	.00480
4.960	5.000	.01090	-.00150	.00730	-.01420	.00000	.00000	.00460
4.960	6.000	.01780	-.00620	.00290	-.01060	.00000	.00000	.00440
4.960	8.000	.03330	-.01760	-.00880	-.00090	.00000	.00000	.00380
4.960	10.000	.05110	-.03170	-.02440	.01200	.00000	.00000	.00300
GRADIENT		.00524	-.00236	.00169	-.00144	.00000	.00000	-.00004

MSFC 370(1A31F) (S3/2)/(G3) (T9)/(S3/2)

(M43S66) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = .000 COARFIC = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBITING = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3312/ 0 RNVL = 4.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.597	-10.000	-.03600	.03350	.07710	-.06350	-.01020	.00000	.04070
.597	-8.000	-.04890	.03080	.06840	-.05910	-.00990	.00000	.04040
.597	-6.000	-.04070	.02490	.06200	-.05440	-.00740	.00000	.03890
.597	-4.000	-.02990	.01740	.05460	-.04930	-.00540	.00000	.03750
.597	-2.000	-.02090	.01120	.05070	-.04670	-.00390	.00000	.03520
.597	.000	-.01040	.00330	.04530	-.04290	-.00190	.00000	.03270
.597	2.000	-.00030	-.00500	.03980	-.03900	.00000	.00000	.03190
.597	4.000	.01150	-.01460	.03190	-.03220	.00210	.00000	.03190
.597	6.000	.02010	-.02290	.02290	-.02440	.00350	.00000	.03200
.597	8.000	.02410	-.02610	.00710	-.01970	.00440	.00000	.02760
.597	10.000	.02380	-.02640	-.01590	-.01650	.00430	.00000	.02610
GRADIENT	.00517	-.00401	-.00286	.00215	.00294	.00000	.00000	-.00073

RUN NO. 3311/ 0 RNVL = 5.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.804	-10.000	-.06170	.04030	.07440	-.06520	-.01120	.00000	.04460
.804	-8.000	-.05310	.03440	.06620	-.05900	-.00970	.00000	.04330
.804	-6.000	-.04490	.02980	.05970	-.05380	-.00820	.00000	.04040
.804	-4.000	-.03440	.02110	.05190	-.04860	-.00630	.00000	.03700
.804	-2.000	-.02310	.01270	.04560	-.04490	-.00420	.00000	.03300
.804	.000	-.01260	.00490	.04350	-.04320	-.00230	.00000	.03060
.804	2.000	.00060	-.00690	.03990	-.04030	.00010	.00000	.03190
.804	4.000	.01290	-.01740	.02950	-.03430	.00230	.00000	.02980
.804	6.000	.01970	-.02370	.00030	-.02340	.00360	.00000	.02790
.804	8.000	.02890	-.03100	-.04220	.00080	.00530	.00000	.02670
.804	10.000	.03500	-.03620	-.08220	.02450	.00640	.00000	.02710
GRADIENT	.00590	-.00482	-.00258	.00163	.00107	.00000	.00000	-.00078



MSFC 570(1A31F) (S3/2)/(03) (T9)/(S3/2)

(M03566) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3310/ 0 RN/L = 6.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.06180	.04100	.07740	-.06910	-.01130	.00000	.04690
.901	-8.000	-.05370	.03980	.06710	-.06150	-.00980	.00000	.04400
.901	-6.000	-.04330	.02970	.05900	-.05320	-.00820	.00000	.04070
.901	-4.000	-.03850	.02370	.05280	-.05000	-.00680	.00000	.03750
.901	-2.000	-.02430	.01440	.04700	-.04620	-.00440	.00000	.03290
.901	.000	-.01260	.00490	.04490	-.04330	-.00230	.00000	.02960
.901	2.000	.00220	-.00820	.03940	-.04120	.00040	.00000	.02970
.901	4.000	.01360	-.02020	.01560	-.02890	.00290	.00000	.02900
.901	6.000	.02320	-.02790	-.02690	-.00410	.00460	.00000	.02750
.901	8.000	.02860	-.02990	-.06670	.01990	.00320	.00000	.02640
.901	10.000	.03390	-.03370	-.10710	.04270	.00620	.00000	.02620
GRADIENT		.00653	-.00552	-.00407	.00236	.00118	.00000	-.00099

RUN NO. 3314/ 0 RN/L = 6.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.042	-10.000	-.06000	.04130	.09190	-.08220	-.01090	.00000	.04340
1.042	-8.000	-.05320	.03700	.08390	-.07610	-.00970	.00000	.03900
1.042	-6.000	-.04660	.03290	.07660	-.07120	-.00850	.00000	.03740
1.042	-4.000	-.03930	.02780	.06700	-.06390	-.00720	.00000	.03140
1.042	-2.000	-.02970	.02040	.06040	-.05950	-.00340	.00000	.02810
1.042	.000	-.01670	.00960	.05280	-.05370	-.00300	.00000	.02260
1.042	2.000	.00230	-.00870	.04830	-.04930	.00040	.00000	.02470
1.042	4.000	.01630	-.02070	.00390	-.01850	.00290	.00000	.02120
1.042	6.000	.02430	-.02640	-.03800	.00620	.00440	.00000	.02220
1.042	8.000	.03210	-.03280	-.09400	.03290	.00590	.00000	.02090
1.042	10.000	.04430	-.04240	-.13410	.06110	.00810	.00000	.02040
GRADIENT		.00716	-.00630	-.00691	.00503	.00130	.00000	-.00119

MSFC 570 (1A31F) (S3/21)/(03) (19)/(S3/2)

(M03S66) (21 AUG 74)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 CGAFC = 316.000
DELTAZ = .140 RUDDER = .000
X-SR3 = .000 CPBINC = .500
SPACER = .000 SPACIA = .000
SPACAP = .000

RUN NO. 3313/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	-.06570	.04580	.09330	-.08180	-.01200	.00000	.05430
1.244	-8.000	-.05710	.04010	.08240	-.07410	-.01040	.00000	.05290
1.244	-6.000	-.05040	.03530	.07160	-.06880	-.00920	.00000	.05020
1.244	-4.000	-.04250	.02990	.06340	-.06160	-.00770	.00000	.04740
1.244	-2.000	-.03490	.02430	.05890	-.05960	-.00630	.00000	.04380
1.244	.000	-.02420	.01590	.05450	-.05750	-.00440	.00000	.04000
1.244	2.000	-.00690	-.00210	.04520	-.04910	-.00120	.00000	.04140
1.244	4.000	.01130	-.01820	-.00410	-.01420	.00200	.00000	.03950
1.244	6.000	.02470	-.02940	-.00470	.01050	.00430	.00000	.03770
1.244	8.000	.03380	-.03660	-.00290	.03650	.00610	.00000	.03600
1.244	10.000	.04390	-.04440	-.01410	.06620	.00800	.00000	.03490
1.244	GRADIENT	.00678	-.00613	-.00743	.00527	.00122	.00000	-.00090

RUN NO. 3327/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.463	-10.000	-.05260	.03700	.08370	-.07340	-.00950	.00000	.04930
1.463	-8.000	-.04280	.02980	.07290	-.06560	-.00780	.00000	.04860
1.463	-6.000	-.03590	.02560	.06290	-.05920	-.00650	.00000	.04650
1.463	-4.000	-.03260	.02480	.05470	-.05280	-.00590	.00000	.04440
1.463	-2.000	-.02890	.02260	.05020	-.05120	-.00520	.00000	.04170
1.463	.000	-.02330	.01940	.04540	-.04930	-.00420	.00000	.03950
1.463	2.000	-.01520	.01060	.04320	-.04770	-.00270	.00000	.04190
1.463	4.000	.00070	-.00530	.00440	-.01670	.00010	.00000	.03990
1.463	6.000	.01370	-.01750	-.04110	.01400	.00250	.00000	.03700
1.463	8.000	.02220	-.02520	-.00340	.04500	.00400	.00000	.03430
1.463	10.000	.03190	-.03460	-.01560	.07880	.00590	.00000	.03210
1.463	GRADIENT	.00401	-.00359	-.00538	.00379	.00072	.00000	-.00054



DATE 05 NOV 74

TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(O3) (T9)/(S3/2)

(M83566) (21 AUG 74)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFTG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3328/ 0 RVL = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.973	-10.000	-.04270	.03120	.07220	-.06250	-.00780	.00000	.03090
1.973	-8.000	-.03350	.02370	.06450	-.05690	-.00610	.00000	.03320
1.973	-6.000	-.02690	.01840	.05590	-.05070	-.00490	.00000	.03330
1.973	-4.000	-.02170	.01450	.05010	-.04730	-.00390	.00000	.03190
1.973	-2.000	-.01640	.01040	.04350	-.04310	-.00390	.00000	.03120
1.973	.000	-.01250	.00810	.03340	-.03820	-.00220	.00000	.03070
1.973	2.000	-.00970	.00560	.03230	-.03830	-.00170	.00000	.03090
1.973	4.000	-.00250	-.00170	.03320	-.01730	-.00040	.00000	.02990
1.973	6.000	.00810	-.01160	-.04290	.01220	.00140	.00000	.02930
1.973	8.000	.01590	-.02260	-.08960	.03950	.00360	.00000	.02650
1.973	10.000	.03070	-.03270	-.14190	.07000	.00360	.00000	.02500
GRADIENT	.00225	-.00196	-.00323	.00324	.00042	.00000	.00000	-.00026

RUN NO. 3329/ 0 RVL = 4.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.04140	.03650	.05810	-.05040	-.00750	.00000	.01690
2.990	-8.000	-.03410	.02970	.05400	-.04760	-.00620	.00000	.01520
2.990	-6.000	-.02750	.02320	.04770	-.04320	-.00500	.00000	.01310
2.990	-4.000	-.02320	.01930	.04190	-.03920	-.00420	.00000	.01570
2.990	-2.000	-.01750	.01370	.03540	-.03600	-.00320	.00000	.01600
2.990	.000	-.01080	.00700	.02840	-.03150	-.00190	.00000	.01590
2.990	2.000	-.00500	.00120	.02090	-.02630	-.00090	.00000	.01490
2.990	4.000	-.00230	-.00070	.01310	-.02010	-.00040	.00000	.01410
2.990	6.000	.00130	-.00460	.00520	-.01490	.00020	.00000	.01350
2.990	8.000	.00680	-.01110	-.01150	-.01120	.00000	.00000	.01240
2.990	10.000	.01200	-.01650	-.04270	-.00500	.00220	.00000	.01200
GRADIENT	.00271	-.00262	-.00360	.00239	.00050	.00000	.00000	-.00022

(N03566) (21 AUG 74)

MSFC 570 (1A31F) (S3/2)/(G3) (T9)/(G3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COARFIC = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 3330/ 0 RIVL = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.04020	.03830	.05370	-.04750	-.00750	.00000	.01170
3.480	-8.000	-.03410	.03220	.04920	-.04410	-.00620	.00000	.00990
3.480	-6.000	-.02760	.02530	.04350	-.03970	-.00500	.00000	.00870
3.480	-4.000	-.02330	.02110	.03830	-.03600	-.00420	.00000	.00800
3.480	-2.000	-.01770	.01520	.03230	-.03330	-.00320	.00000	.00800
3.480	.000	-.01150	.00870	.02520	-.02970	-.00210	.00000	.01190
3.480	2.000	-.00530	.00210	.01750	-.02290	-.00090	.00000	.01160
3.480	4.000	-.00260	-.00060	.00970	-.01750	-.00040	.00000	.01060
3.480	6.000	.00230	-.00610	-.00250	-.00840	.00040	.00000	.01020
3.480	8.000	.00980	-.01450	.01990	.00280	.00180	.00000	.00990
3.480	10.000	.01990	-.02590	.04190	.01680	.00360	.00000	.00940
GRADIENT	.00269	-.00282	-.00261	.00361	.00242	.00050	.00000	.00022

RUN NO. 3331/ 0 RIVL = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.03690	.03980	.05050	-.05010	-.00670	.00000	.00380
4.960	-8.000	-.02930	.03220	.04030	-.03990	-.00530	.00000	.00270
4.960	-6.000	-.02300	.02470	.03370	-.03310	-.00420	.00000	.00250
4.960	-4.000	-.01840	.02010	.03010	-.03220	-.00330	.00000	.00290
4.960	-2.000	-.01410	.01470	.02470	-.02820	-.00250	.00000	.00440
4.960	.000	-.00970	.00930	.01560	-.02120	-.00170	.00000	.00450
4.960	2.000	-.00570	.00590	.00750	-.01450	-.00100	.00000	.00470
4.960	4.000	-.00290	.00110	.00200	-.00990	-.00030	.00000	.00470
4.960	6.000	.00270	-.00260	-.00010	-.00820	.00040	.00000	.00470
4.960	8.000	.01130	-.00700	.00370	-.00940	.00200	.00000	.00490
4.960	10.000	.02290	-.01130	.00490	-.01360	.00410	.00000	.00510
GRADIENT	.00197	-.00238	-.00367	.00291	.00036	.00000	.00000	.00019



MSFC 570 (1A31F) (S3/2)/(C3) (T10)/(S3/2)

(R89567) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF10 = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3321/ 0 RV/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.07840	.02370	-.04280	-.00080	.00000	.00000	.02870
1.047	-8.000	-.06340	.02120	-.01280	-.01480	.00000	.00000	.02630
1.047	-6.000	-.05080	.01940	.01170	-.02810	.00000	.00000	.02330
1.047	-4.000	-.03810	.01670	.03590	-.04200	.00000	.00000	.02330
1.047	-2.000	-.02540	.01210	.04950	-.04950	.00000	.00000	.02240
1.047	.000	-.01320	.00640	.05180	-.03220	.00000	.00000	.02120
1.047	2.000	.00010	-.00140	.04780	-.04990	.00000	.00000	.02170
1.047	4.000	.01470	-.00960	.03670	-.04210	.00000	.00000	.01990
1.047	6.000	.02980	-.01880	.02230	-.03190	.00000	.00000	.02380
1.047	8.000	.04360	-.02570	.00100	-.01830	.00000	.00000	.02700
1.047	10.000	.05730	-.03110	-.02520	-.00320	.00000	.00000	.02960
GRADIENT		.00655	-.00330	-.00000	-.00003	.00000	.00000	-.00040

RUN NO. 3323/ 0 RV/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.231	-10.000	-.08760	.02330	-.06170	.00490	.00000	.00000	.04230
1.231	-8.000	-.06750	.01900	-.03190	-.00810	.00000	.00000	.03940
1.231	-6.000	-.05180	.01490	-.00290	-.02230	.00000	.00000	.03960
1.231	-4.000	-.03840	.01210	.02500	-.03880	.00000	.00000	.04090
1.231	-2.000	-.02730	.01080	.04530	-.04900	.00000	.00000	.04210
1.231	.000	-.01770	.00930	.05410	-.03470	.00000	.00000	.04290
1.231	2.000	-.00640	.00480	.04760	-.05090	.00000	.00000	.04370
1.231	4.000	.01260	-.00790	.03700	-.04400	.00000	.00000	.04720
1.231	6.000	.02520	-.01340	.02510	-.03750	.00000	.00000	.04740
1.231	8.000	.03970	-.01940	.00340	-.02530	.00000	.00000	.04960
1.231	10.000	.05440	-.02460	-.02770	-.01000	.00000	.00000	.05160
GRADIENT		.00614	-.00230	.00132	-.00091	.00000	.00000	.00071

(R03569) (94 OCT 73)

MSFC 370 (1A31F) (S3/2)/(C3) (T10)/(S3/2)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
SREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFIG = 316.000
DELTAZ = .140 PUDDER = .000
X-SR3 = .000 ZPBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3316/ 0 RM/L = 6.19 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.996	-10.000	-.00970	.00890	.06460	-.06200	-.00170	.00000	.04320
.996	-8.000	-.00330	.00440	.03710	-.03570	-.00060	.00000	.04010
.996	-6.000	.00230	.00000	.04930	-.04920	.00040	.00000	.03750
.996	-4.000	.00570	-.00490	.04200	-.04320	.00150	.00000	.03370
.996	-2.000	.01460	-.00990	.03370	-.03790	.00260	.00000	.02970
.996	.000	.02300	-.01690	.03110	-.03430	.00420	.00000	.03040
.996	2.000	.02740	-.02030	.02370	-.03140	.00300	.00000	.03240
.996	4.000	.02330	-.01930	-.00110	-.01110	.00460	.00000	.03250
.996	6.000	.02330	-.01930	-.03170	.02430	.00420	.00000	.03390
.996	8.000	.02100	-.01740	-.10030	.06450	.00390	.00000	.03350
.996	10.000	.01710	-.01740	-.14300	.09160	.00310	.00000	.03390
GRADIENT		.00230	-.00199	-.00481	.00353	.00043	.00000	.00002

RUN NO. 3315/ 0 RM/L = 5.45 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.043	-10.000	-.01080	.00930	.06900	-.06610	-.00190	.00000	.03910
1.043	-8.000	-.00390	.00460	.06150	-.06050	-.00070	.00000	.03750
1.043	-6.000	.00180	.00070	.05450	-.05470	.00030	.00000	.03470
1.043	-4.000	.00710	-.00310	.04740	-.04990	.00130	.00000	.03010
1.043	-2.000	.01290	-.00910	.04140	-.04420	.00230	.00000	.02600
1.043	.000	.02120	-.01560	.03610	-.04030	.00390	.00000	.02490
1.043	2.000	.02610	-.02030	.02410	-.03190	.00470	.00000	.02370
1.043	4.000	.02440	-.02010	-.01240	-.00390	.00440	.00000	.02610
1.043	6.000	.02260	-.02000	-.06680	.03990	.00410	.00000	.02940
1.043	8.000	.02100	-.02090	-.11930	.07750	.00390	.00000	.02930
1.043	10.000	.02340	-.02490	-.17330	.11260	.00460	.00000	.02960
GRADIENT		.00239	-.00231	-.00694	.00310	.00043	.00000	-.00041



DATE 09 NOV 74

TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(03) (T10)/(S3/2)

(R03568) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CENGINE = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3317/ 0 RVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.02010	.01900	.07030	-.06830	-.00360	.00000	.05530
1.253	-8.000	-.01300	.01480	.06210	-.06140	-.00230	.00000	.05210
1.253	-6.000	-.00790	.01230	.05610	-.05680	-.00140	.00000	.04960
1.253	-4.000	-.00310	.00910	.03100	-.05330	-.00030	.00000	.04860
1.253	-2.000	.00340	.00310	.04470	-.04880	.00060	.00000	.04770
1.253	.000	.01200	-.00320	.03890	-.04490	.00220	.00000	.04580
1.253	2.000	.01810	-.01220	.02420	-.03430	.00330	.00000	.04450
1.253	4.000	.01940	-.01460	-.01520	-.03430	.00330	.00000	.04420
1.253	6.000	.01530	-.01350	-.07980	.03860	.00280	.00000	.04370
1.253	8.000	.01310	-.01400	-.12960	.08190	.00240	.00000	.04350
1.253	10.000	.01770	-.02330	-.19890	.11990	.00320	.00000	.04330
GRADIENT		.00288	-.00313	-.00764	.00362	.00031	.00000	-.00050

RUN NO. 3326/ 0 RVL = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-10.000	-.00980	.01310	.06270	-.06070	-.00190	.00000	.04900
1.462	-8.000	-.00530	.01170	.03450	-.05390	-.00090	.00000	.04790
1.462	-6.000	-.00070	.00940	.04730	-.04800	-.00010	.00000	.04720
1.462	-4.000	.00310	.00680	.04230	-.04470	.00030	.00000	.04530
1.462	-2.000	.00740	.00290	.03690	-.04150	.00130	.00000	.04590
1.462	.000	.01130	-.00120	.03140	-.03920	.00200	.00000	.04660
1.462	2.000	.01420	-.00320	.01760	-.03110	.00260	.00000	.04360
1.462	4.000	.01330	-.00670	-.01880	-.03470	.00240	.00000	.04030
1.462	6.000	.01060	-.00640	-.07610	.03970	.00190	.00000	.03970
1.462	8.000	.01070	-.00860	-.14110	.08870	.00190	.00000	.04100
1.462	10.000	.01730	-.01950	-.20890	.13430	.00310	.00000	.03930
GRADIENT		.00136	-.00175	-.00707	.00452	.00025	.00000	-.00060

MSFC 570 (IASIF) (S3/2)/(C3) (T10)/(S3/2)

(R83588) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

ALPHA = 5.000 CONFIG = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 OPDINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3337/ 0 RM/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.00240	.01480	.05010	-.04500	.00040	.00000	.01480
2.990	-8.000	.00640	.01100	.04400	-.04100	.00110	.00000	.01160
2.990	-6.000	.00890	.00890	.03580	-.03500	.00150	.00000	.01010
2.990	-4.000	.00990	.00630	.03040	-.03220	.00180	.00000	.01300
2.990	-2.000	.01130	.00310	.02290	-.02790	.00200	.00000	.01530
2.990	.000	.01220	.00100	.01390	-.02230	.00220	.00000	.01490
2.990	2.000	.01270	-.00040	.00420	-.01570	.00230	.00000	.01440
2.990	4.000	.01410	-.00260	-.00330	-.00910	.00250	.00000	.01370
2.990	6.000	.01710	-.00320	-.01430	-.00110	.00310	.00000	.01200
2.990	8.000	.02190	-.00830	-.02250	.00320	.00400	.00000	.00940
2.990	10.000	.02840	-.01200	-.03020	.01100	.00510	.00000	.00390
GRADIENT		.00049	-.00106	-.00450	.00302	.00009	.00000	.00003

RUN NO. 3336/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.00500	.01440	.04340	-.04000	.00090	.00000	.01060
3.480	-8.000	.00910	.01010	.03900	-.03630	.00160	.00000	.00930
3.480	-6.000	.01080	.00800	.03170	-.03180	.00190	.00000	.00780
3.480	-4.000	.01130	.00600	.02600	-.02930	.00200	.00000	.00910
3.480	-2.000	.01280	.00220	.01920	-.02420	.00230	.00000	.01120
3.480	.000	.01400	-.00050	.01000	-.01630	.00250	.00000	.01100
3.480	2.000	.01410	-.00200	.00170	-.01290	.00250	.00000	.01090
3.480	4.000	.01500	-.00350	-.00350	-.00790	.00270	.00000	.01000
3.480	6.000	.01770	-.00540	-.01340	-.00290	.00320	.00000	.00760
3.480	8.000	.02210	-.01040	-.02200	.00170	.00400	.00000	.00360
3.480	10.000	.02820	-.01560	-.03110	.00620	.00510	.00000	-.00190
GRADIENT		.00043	-.00117	-.00402	.00252	.00004	.00000	.00007



HSFC 570(1A31F) (S3/2)/(Q3)(T10)/(S3/2)

(R03569) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 316.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3319/ 0 RN/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.895	-10.000	-.11190	.08460	.06240	-.05900	-.02040	.00000	.04460
.895	-8.000	-.09920	.05680	.05080	-.04990	-.01810	.00000	.04340
.895	-6.000	-.08700	.04950	.04120	-.04300	-.01590	.00000	.04100
.895	-4.000	-.07300	.04010	.03270	-.03680	-.01330	.00000	.03670
.895	-2.000	-.05740	.02980	.02660	-.03310	-.01050	.00000	.03340
.895	.000	-.04150	.01840	.02230	-.03150	-.00750	.00000	.03010
.895	2.000	-.02100	.00290	.01320	-.02710	-.00390	.00000	.03020
.895	4.000	.00310	-.01500	.00670	-.02710	.00550	.00000	.02910
.895	6.000	.01220	-.02040	-.02210	-.00790	.00220	.00000	.02670
.895	8.000	.01620	-.02100	-.06030	.01310	.00290	.00000	.02590
.895	10.000	.02330	-.02600	-.10070	.03560	.00460	.00000	.02720
GRADIENT	.00943	-.00695	-.00327	.00127	.00171	.00000	.00000	-.00092

RUN NO. 3320/ 0 RN/L = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.046	-10.000	-.11890	.07050	.08790	-.07820	-.02170	.00000	.04320
1.046	-8.000	-.10630	.06220	.07460	-.06740	-.01940	.00000	.03990
1.046	-6.000	-.09330	.05390	.06430	-.05990	-.01700	.00000	.03660
1.046	-4.000	-.08000	.04590	.05300	-.05090	-.01460	.00000	.03090
1.046	-2.000	-.06600	.03510	.04390	-.04430	-.01200	.00000	.02660
1.046	.000	-.05000	.02230	.03310	-.03770	-.00910	.00000	.02260
1.046	2.000	-.02920	.00610	.01980	-.03400	-.00530	.00000	.02270
1.046	4.000	-.00470	-.01200	.00200	-.02610	-.00090	.00000	.02390
1.046	6.000	.00520	-.01730	-.03840	.00230	.00090	.00000	.02110
1.046	8.000	.01190	-.01920	-.08440	.02970	.00210	.00000	.02060
1.046	10.000	.02050	-.02230	-.13410	.05770	.00370	.00000	.01990
GRADIENT	.00937	-.00715	-.00630	.00299	.00172	.00000	.00000	-.00090

MSFC 570(1A31F) (S3/2)/(G3)(T10)/(S3/2)

(R33589) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFLG = 316.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 CRBLNC = .500
SPACER = .000 SPADTA = .000
SPAGAP = .000

RUN NO. 3318/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CEL	CAF	CAB
1.255	-10.000	-.12790	.07450	.07550	-.06440	-.02340	.00000	.05180
1.255	-9.000	-.11140	.06270	.06280	-.05620	-.02030	.00000	.05030
1.255	-8.000	-.09750	.05330	.05390	-.04940	-.01780	.00000	.04740
1.255	-4.000	-.08470	.04490	.04090	-.04250	-.01540	.00000	.04540
1.255	-2.000	-.07070	.03590	.03220	-.03770	-.01290	.00000	.04160
1.255	.000	-.05380	.02160	.02090	-.03270	-.00980	.00000	.03970
1.255	2.000	-.03180	.00470	.00960	-.02550	-.00590	.00000	.04090
1.255	4.000	-.03660	-.01440	-.00990	-.01990	-.00120	.00000	.03940
1.255	6.000	.00430	-.02100	-.05110	.01010	.00070	.00000	.03750
1.255	8.000	.00980	-.02180	-.09740	.03810	.00170	.00000	.03560
1.255	10.000	.01580	-.02310	-.14570	.06570	.00240	.00000	.03390
GRADIENT		.00975	-.00744	-.00621	.00282	.00177	.00000	-.00064

RUN NO. 3325/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CEL	CAF	CAB
1.463	-10.000	-.11760	.07230	.07310	-.06390	-.02150	.00000	.04920
1.463	-9.000	-.10290	.06030	.06090	-.05290	-.01980	.00000	.04810
1.463	-8.000	-.09160	.05250	.04960	-.04560	-.01670	.00000	.04500
1.463	-4.000	-.08050	.04530	.04070	-.04060	-.01470	.00000	.04420
1.463	-2.000	-.07010	.03830	.03330	-.03760	-.01280	.00000	.04200
1.463	.000	-.05540	.02620	.02530	-.03370	-.01010	.00000	.04060
1.463	2.000	-.03650	.01020	.01290	-.02990	-.00660	.00000	.03970
1.463	4.000	-.01390	-.00840	.00020	-.02350	-.00230	.00000	.03770
1.463	6.000	-.00020	-.01690	-.04150	.00430	.00000	.00000	.03660
1.463	8.000	.00690	-.01590	-.09210	.03340	.00120	.00000	.03580
1.463	10.000	.01270	-.02150	-.14490	.06610	.00230	.00000	.03610
GRADIENT		.00843	-.00577	-.00597	.00190	.00155	.00000	-.00075

MSFC 570 (1A31F) (S3/2)/(G3) (T10)/(S3/2)

(R83S69) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN. XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 316.000
 DELTAZ = .140 RUDDER = .500
 X-SRB = .000 CEBINC = .500
 SPACER = .000 SPADIA = .500
 SPACAP = .000

RUN NO. 3334/ 0 RM/L = 4.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	-.06600	.05750	.04210	-.03360	-.01580	.00000	.01510
2.990	-8.000	-.07990	.05100	.03490	-.02910	-.01460	.00000	.01590
2.990	-6.000	-.07200	.04420	.02760	-.02440	-.01310	.00000	.01560
2.990	-4.000	-.06300	.03650	.01970	-.01990	-.01150	.00000	.01490
2.990	-2.000	-.05290	.02790	.01120	-.01500	-.00960	.00000	.01660
2.990	.000	-.04310	.01940	.00550	-.00900	-.00790	.00000	.01670
2.990	2.000	-.03300	.00950	-.00970	-.00150	-.00600	.00000	.01590
2.990	4.000	-.02640	.00440	-.01820	.00350	-.00480	.00000	.01490
2.990	6.000	-.02200	.00150	-.02440	.00390	-.00490	.00000	.01470
2.990	8.000	-.01340	-.00570	-.03000	.00360	-.00240	.00000	.01350
2.990	10.000	-.00820	-.00950	-.03590	.00390	-.00150	.00000	.01250
	GRADIENT	.00485	-.00411	-.00483	.00301	.00095	.00000	-.00003

RUN NO. 3335/ 0 RM/L = 6.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.08580	.06030	.03910	-.03360	-.01570	.00000	.01100
3.480	-8.000	-.07820	.05290	.03220	-.02890	-.01430	.00000	.01090
3.480	-6.000	-.06930	.04480	.02600	-.02480	-.01260	.00000	.01150
3.480	-4.000	-.06160	.03780	.01900	-.02050	-.01120	.00000	.01270
3.480	-2.000	-.05320	.02990	.00950	-.01430	-.00970	.00000	.01260
3.480	.000	-.04390	.02120	-.00130	-.00640	-.00900	.00000	.01270
3.480	2.000	-.03550	.01340	-.01120	-.00020	-.00640	.00000	.01200
3.480	4.000	-.02830	.00690	-.02040	.00380	-.00510	.00000	.01130
3.480	6.000	-.02470	.00430	-.02970	.00970	-.00450	.00000	.01120
3.480	8.000	-.02500	.00610	-.03920	.01130	-.00490	.00000	.01170
3.480	10.000	-.02920	.01200	-.04890	.01070	-.00530	.00000	.01290
	GRADIENT	.00422	-.00391	-.00497	.00334	.00075	.00000	-.00017

MSFC 370 (1A31F) (S3/2)/(O3)/(T9)/(S3/2) Y1E

(R03S7D) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
.3130 IN. YMRP = .0000 IN.
.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 304.000
DELTAZ = .140 RUDDER = .000
X-SRS = .000 UPBINC = .990
SPACER = 9.100 SPADIA = .200
SPAGAP = .990

RUN NO. 3267/ 0 RM/L = 6.29 GRADIENT INTERVAL = -5.03/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.898	-10.000	-.08770	.02120	-.04470	.01070	.00000	.00000	.02400
.898	-8.000	-.03370	.01810	-.02560	-.00000	.00000	.00000	.02160
.898	-6.000	-.04110	.01430	.00190	-.01230	.00000	.00000	.01970
.898	-4.000	-.02780	.00830	.01730	-.02150	.00000	.00000	.01860
.898	-2.000	-.01590	.00260	.02830	-.02730	.00000	.00000	.01910
.898	.000	-.00550	-.00120	.03110	-.03040	.00000	.00000	.01650
.898	2.000	.00550	-.00750	.02750	-.02780	.00000	.00000	.01900
.898	4.000	.01610	-.01310	.02150	-.02280	.00000	.00000	.01770
.898	6.000	.02530	-.01670	.01320	-.01840	.00000	.00000	.01980
.898	8.000	.03550	-.02030	-.00140	-.00530	.00000	.00000	.02120
.898	10.000	.04570	-.02390	-.02110	.00570	.00000	.00000	.02240
GRADIENT		.00546	-.00264	.00049	-.00014	.00000	.00000	-.00010

RUN NO. 3268/ 0 RM/L = 6.61 GRADIENT INTERVAL = -5.03/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.049	-10.000	-.07240	.02150	-.03750	.00650	.00000	.00000	.02630
1.049	-8.000	-.05920	.01890	-.01160	-.00610	.00000	.00000	.02590
1.049	-6.000	-.04580	.01660	.01170	-.01900	.00000	.00000	.02480
1.049	-4.000	-.03350	.01330	.02980	-.02940	.00000	.00000	.02230
1.049	-2.000	-.02100	.00870	.03900	-.03620	.00000	.00000	.02050
1.049	.000	-.00940	.00310	.03780	-.03790	.00000	.00000	.02240
1.049	2.000	.00200	-.00370	.03210	-.03410	.00000	.00000	.02390
1.049	4.000	.01470	-.01150	.02390	-.02720	.00000	.00000	.02060
1.049	6.000	.02540	-.01720	.01320	-.02050	.00000	.00000	.02130
1.049	8.000	.03760	-.02320	.00170	-.01160	.00000	.00000	.02390
1.049	10.000	.05200	-.03000	-.01790	-.00020	.00000	.00000	.02590
GRADIENT		.00397	-.00310	-.00079	.00033	.00000	.00000	-.00001



MSFC 370 (1A31F) (S3/2)/(C3)/(T9)/(S3/2) Y1E

(R03S70) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 3266/ 0 RNVL = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.07460	.02200	-.03870	.00420	.00000	.00000	.03230
1.246	-8.000	-.05900	.01840	-.01060	-.01040	.00000	.00000	.03070
1.246	-6.000	-.04470	.01490	.01420	-.02420	.00000	.00000	.02930
1.246	-4.000	-.03180	.01180	.03340	-.03610	.00000	.00000	.02910
1.246	-2.000	-.02100	.00920	.04410	-.04440	.00000	.00000	.02930
1.246	.000	-.01190	.00630	.04260	-.04430	.00000	.00000	.02930
1.246	2.000	-.00080	.00000	.03550	-.03940	.00000	.00000	.02920
1.246	4.000	.00900	-.00430	.02930	-.03390	.00000	.00000	.02970
1.246	6.000	.02170	-.01120	.01960	-.02620	.00000	.00000	.02700
1.246	8.000	.03480	-.01800	.00390	-.01610	.00000	.00000	.02750
1.246	10.000	.05040	-.02530	-.01960	-.00310	.00000	.00000	.03020
	GRADIENT	.00509	-.00207	-.00082	.00053	.00000	.00000	.00006

MSFC 570 (1A31F) (S3/2)/(C31)/(T9)/(S3/2) Y1E

(R83571) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SPB = .000 OPENING = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .000

RUN NO. 3271/ 0 RVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.04550	.02680	.06200	-.03480	-.00930	.00000	.02450
.901	-8.000	-.03630	.02050	.05490	-.04940	-.00660	.00000	.02250
.901	-6.000	-.02770	.01470	.04870	-.04450	-.00390	.00000	.02090
.901	-4.000	-.01850	.00850	.04340	-.04010	-.00330	.00000	.02040
.901	-2.000	-.01050	.00280	.03690	-.03470	-.00190	.00000	.01920
.901	.000	-.00340	-.00250	.02910	-.02890	-.00060	.00000	.01800
.901	2.000	.00400	-.00810	.02110	-.02300	.00070	.00000	.01610
.901	4.000	.00980	-.01290	.01260	-.01680	.00140	.00000	.01490
.901	6.000	.01330	-.01540	.00690	-.01340	.00240	.00000	.01440
.901	8.000	.01910	-.01990	.00660	-.01470	.00350	.00000	.01290
.901	10.000	.02190	-.02170	.01080	-.02020	.00390	.00000	.01020
	GRADIENT	.00355	-.00267	-.00387	.00291	.00064	.00000	-.00071

RUN NO. 3269/ 0 RVL = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.05390	.03600	.07570	-.06590	-.01020	.00000	.03150
1.050	-8.000	-.04600	.02940	.06870	-.06090	-.00940	.00000	.03110
1.050	-6.000	-.03640	.02290	.06150	-.05550	-.00660	.00000	.02920
1.050	-4.000	-.02640	.01550	.05490	-.05110	-.00490	.00000	.02920
1.050	-2.000	-.01650	.00830	.04730	-.04530	-.00390	.00000	.02720
1.050	.000	-.00760	.00160	.03730	-.03750	-.00130	.00000	.02590
1.050	2.000	.00070	-.00520	.02680	-.02920	.00010	.00000	.02240
1.050	4.000	.00770	-.01140	.01940	-.02350	.00140	.00000	.01990
1.050	6.000	.00920	-.01170	.01410	-.02190	.00160	.00000	.01930
1.050	8.000	.01020	-.01140	.01000	-.02400	.00180	.00000	.01690
1.050	10.000	.01400	-.01400	.02030	-.02970	.00250	.00000	.01450
	GRADIENT	.00427	-.00337	-.00468	.00357	.00077	.00000	-.00109



MSFC 370 (1A31F) (S3/2)/(C3)/(T9)/(S3/2) Y1E

(R83571) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 304.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR3INC = .000
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 3270/ 0 RM/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.03410	.03720	.07600	-.06670	-.00990	.00000	.03190
1.250	-8.000	-.04410	.02960	.06860	-.06190	-.00800	.00000	.03250
1.250	-6.000	-.03470	.02250	.06180	-.03750	-.00630	.00000	.03220
1.250	-4.000	-.02580	.01650	.05570	-.03360	-.00470	.00000	.03140
1.250	-2.000	-.01790	.01060	.04970	-.03320	-.00300	.00000	.02940
1.250	.000	-.01030	.00490	.04080	-.03300	-.00190	.00000	.02800
1.250	2.000	-.00250	-.00090	.03050	-.03450	-.00040	.00000	.02510
1.250	4.000	.00580	-.00350	.02130	-.02720	.00100	.00000	.02390
1.250	6.000	.00960	-.01150	.01660	-.02480	.00170	.00000	.02120
1.250	8.000	.01120	-.01230	.01740	-.02690	.00200	.00000	.02120
1.250	10.000	.01280	-.01330	.02210	-.03250	.00230	.00000	.01990
GRADIENT	.00392	-.00305	-.00305	-.00435	.00335	.00071	.00000	-.00099

(R63572) (04 OCT 73)

NSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2) Y10

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.8720 SQ. IN XMRP = 2.5490 IN.
.9330 IN. YMRP = .0000 IN.
.9330 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIG = 309.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .000
SPACER = 21.220 SPADIA = .200
SPAGAP = .000

RUN NO. 3250/0 RIVL = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
.895	-10.000	-.06440	.01670	-.04930	.01240	.00000	.00000	.03310
.895	-8.000	-.05120	.01510	-.02640	.00190	.00000	.00000	.03160
.895	-6.000	-.03850	.01120	-.00360	-.00920	.00000	.00000	.03040
.895	-4.000	-.02350	.00540	.01210	-.01810	.00000	.00000	.02900
.895	-2.000	-.01310	-.00030	.02350	-.02490	.00000	.00000	.02800
.895	.000	-.00400	-.00390	.02930	-.02760	.00000	.00000	.02660
.895	2.000	.00710	-.01000	.02600	-.02370	.00000	.00000	.02570
.895	4.000	.01980	-.01690	.02100	-.02200	.00000	.00000	.02470
.895	6.000	.02660	-.01920	.01350	-.01990	.00000	.00000	.02370
.895	8.000	.03610	-.02260	-.00370	-.00640	.00000	.00000	.02270
.895	10.000	.04720	-.02680	-.02130	.00600	.00000	.00000	.02170
GRADIENT		.00344	-.00270	.00101	-.00344	.00000	.00000	.00025

RUN NO. 3260/0 RIVL = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
1.047	-10.000	-.07200	.02110	-.03900	.00830	.00000	.00000	.02930
1.047	-8.000	-.05900	.01840	-.01380	-.00400	.00000	.00000	.02830
1.047	-6.000	-.04470	.01550	.00990	-.01690	.00000	.00000	.02770
1.047	-4.000	-.03160	.01170	.02690	-.02770	.00000	.00000	.02720
1.047	-2.000	-.02020	.00770	.03630	-.03440	.00000	.00000	.02610
1.047	.000	-.00990	.00230	.03620	-.03590	.00000	.00000	.02510
1.047	2.000	.00300	-.00510	.03010	-.03150	.00000	.00000	.02500
1.047	4.000	.01570	-.01270	.02340	-.02610	.00000	.00000	.02540
1.047	6.000	.02700	-.01850	.01480	-.01930	.00000	.00000	.02690
1.047	8.000	.03990	-.02500	-.00080	-.00870	.00000	.00000	.02740
1.047	10.000	.05340	-.03130	-.02120	.00330	.00000	.00000	.03110
GRADIENT		.00389	-.00308	-.00066	.00030	.00000	.00000	-.00021



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/21)/(G3)/(T9)/(S3/2) Y10

(R33572) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 309.000
 DELTAZ = .145 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPACAP = .050

RUN NO. 3259/ 0 RNVL = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.07970	.01830	-.03430	.01260	.00000	.00000	.04640
1.249	-8.000	-.08060	.01370	-.02700	-.00340	.00000	.00000	.04350
1.249	-6.000	-.04510	.00990	.00000	-.01440	.00000	.00000	.04210
1.249	-4.000	-.03220	.00760	.02390	-.02570	.00000	.00000	.04150
1.249	-2.000	-.02190	.00670	.03860	-.03920	.00000	.00000	.04090
1.249	.000	-.01290	.00490	.03910	-.04090	.00000	.00000	.04120
1.249	2.000	-.00310	.00040	.03350	-.03650	.00000	.00000	.04570
1.249	4.000	.00940	-.00660	.02590	-.03090	.00000	.00000	.04550
1.249	6.000	.02060	-.01160	.01750	-.02350	.00000	.00000	.04550
1.249	8.000	.03330	-.01760	.00240	-.01640	.00000	.00000	.04550
1.249	10.000	.04910	-.02430	-.02130	-.00340	.00000	.00000	.04790
	GRADIENT	.00510	-.00173	-.00003	-.00008	.00000	.00000	.00044

(R03573) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

ALPHA = .000
 DELTAZ = .140
 X-SRB = .000
 SPACER = 21.220
 SPADIA = .200
 SPAGAP = .050

PARAMETRIC DATA

RUN NO. 3262/ 0 RVL = 6.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
.997	-10.000	-.04440	.02550	.03990	-.05210	-.00810	.00000	.02670
.997	-8.000	-.03510	.01910	.03260	-.04650	-.00640	.00000	.02410
.997	-6.000	-.02590	.01290	.04570	-.04190	-.00470	.00000	.02330
.997	-4.000	-.01780	.00720	.04050	-.03690	-.00320	.00000	.02190
.997	-2.000	-.01010	.00200	.03340	-.03100	-.00190	.00000	.02030
.997	.000	-.00230	-.00350	.02620	-.02350	-.00040	.00000	.01980
.997	2.000	.00470	-.00890	.01910	-.02030	.00090	.00000	.01900
.997	4.000	.01030	-.01340	.01090	-.01440	.00140	.00000	.01720
.997	6.000	.01500	-.01690	.00350	-.00870	.00270	.00000	.01750
.997	8.000	.01730	-.01790	.00190	-.00910	.00310	.00000	.01640
.997	10.000	.01930	-.01940	.00870	-.01730	.00350	.00000	.01430
GRADIENT		.00355	-.00260	-.00369	.00277	.00063	.00000	-.00055

RUN NO. 3261/ 0 RVL = 6.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.049	-10.000	-.05650	.03570	.07370	-.06320	-.01030	.00000	.03460
1.049	-8.000	-.04610	.02880	.06670	-.05860	-.00940	.00000	.03330
1.049	-6.000	-.03590	.02210	.05920	-.05320	-.00850	.00000	.03190
1.049	-4.000	-.02590	.01500	.05260	-.04850	-.00740	.00000	.03100
1.049	-2.000	-.01610	.00770	.04490	-.04270	-.00290	.00000	.03010
1.049	.000	-.00620	.00010	.03600	-.03600	-.00110	.00000	.02900
1.049	2.000	.00230	-.00660	.02550	-.02770	.00040	.00000	.02890
1.049	4.000	.00850	-.01190	.01640	-.02110	.00150	.00000	.02240
1.049	6.000	.01150	-.01360	.01420	-.02090	.00210	.00000	.02350
1.049	8.000	.01340	-.01410	.01520	-.02340	.00240	.00000	.02130
1.049	10.000	.02000	-.01940	.02210	-.03010	.00350	.00000	.01930
GRADIENT		.00436	-.00339	-.00459	.00350	.00079	.00000	-.00107



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (S3/2)/(03)/(T9)/(S3/2) Y10

(R03573) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CGNFTC = 309.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = .500
 SPACER = 21.220 SFADIA = .200
 SPAGAP = .050

RUN NO. 3263/ 0 RN/L = 6.63 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	-.05350	.03630	.07330	-.06410	-.00970	.00000	.03390
1.247	-8.000	-.04300	.02890	.06800	-.05980	-.00780	.00000	.03390
1.247	-6.000	-.03390	.02200	.05880	-.05480	-.00620	.00000	.03390
1.247	-4.000	-.02320	.01570	.05300	-.05110	-.00460	.00000	.03160
1.247	-2.000	-.01690	.00960	.04630	-.04670	-.00390	.00000	.02990
1.247	.000	-.00910	.00390	.03860	-.04100	-.00160	.00000	.02780
1.247	2.000	-.00130	-.00210	.02970	-.03300	-.00020	.00000	.02630
1.247	4.000	.00610	-.00970	.02030	-.02640	.00110	.00000	.02470
1.247	6.000	.00980	-.01180	.01720	-.02330	.00180	.00000	.02350
1.247	8.000	.01450	-.01540	.01690	-.02800	.00260	.00000	.02290
1.247	10.000	.02250	-.02220	.02340	-.03490	.00410	.00000	.02190
1.247	GRADIENT	.00390	-.00302	-.00413	.00315	.00071	.00000	-.00097

MSFC 570 (1A31F) (S3/2)/(C3)/(T9)/(S3/2) Y2E

(R83574) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 COAF10 = 313.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 GRBINC = .500
SPACER = 9.000 SPAD1A = .200
SPAGAP = .050

PARAMETRIC DATA

RUN NO. 3265/ 0 RIV/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.249	-10.000	-.07480	.02200	-.03730	.00330	.00000	.00000	.03240
1.249	-9.000	-.05860	.01850	-.00940	-.01120	.00000	.00000	.03040
1.249	-8.000	-.04460	.01530	.01530	-.02490	.00000	.00000	.02960
1.249	-7.000	-.03220	.01280	.03440	-.03640	.00000	.00000	.02920
1.249	-6.000	-.02180	.01000	.04420	-.04390	.00000	.00000	.02890
1.249	-5.000	-.01260	.00700	.04250	-.04400	.00000	.00000	.02860
1.249	-4.000	-.00010	-.00010	.03540	-.03800	.00000	.00000	.02960
1.249	4.000	.00890	-.00410	.02990	-.03430	.00000	.00000	.03040
1.249	6.000	.02140	-.01090	.01980	-.02640	.00000	.00000	.02730
1.249	8.000	.03460	-.01790	.00400	-.01610	.00000	.00000	.02850
1.249	10.000	.05000	-.02320	-.01990	-.00290	.00000	.00000	.03040
GRADIENT		.00519	-.00216	-.00089	.00051	.00000	.00000	.00020

MSFC 570 (1A31F) (S3/2)/(C3)/(T11) (S3/2)

(R83575) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 COAF10 = 317.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 GRBINC = .500
SPACER = .000 SPAD1A = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3298/ 0 RIV/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.600	-.060	.00310	-.00980	.02670	-.02310	.00000	.00000	.02770
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3297/ 0 RIV/L = 5.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.795	-.110	-.00080	-.00340	.02910	-.02810	.00000	.00000	.00180
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000



(R93576) (04 OCT 75)

MSFC 370 (I131F) (S3/2)/(S3)/(T12) (S3/2)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFIG = 319.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 QF3INC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3299/ 0 RVL = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH .596
ALPHA -.070 CLM -.00350
CN .00350
CY .02820 CYN -.02520 CBL .00000 CAF .00000 CAB .02790
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 3296/ 0 RVL = 5.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH .804
ALPHA -.110 CLM -.00470
CN .00000
CY .03010 CYN -.02880 CBL .00000 CAF .00000 CAB .00100
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 3295/ 0 RVL = 5.84 GRADIENT INTERVAL = -5.00/ 5.00

MACH .901
ALPHA -.140 CLM -.00400
CN .00000
CY .02940 CYN -.02830 CBL .00000 CAF .00000 CAB .02510
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 3291/ 0 RVL = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.054
ALPHA -.150 CLM .00360
CN .00000
CY .03790 CYN -.03750 CBL .00000 CAF .00000 CAB .00000
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 3290/ 0 RVL = 6.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.255
ALPHA -.180 CLM .00710
CN .00000
CY .03770 CYN -.03940 CBL .00000 CAF .00000 CAB .00000
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 3301/ 0 RVL = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.462
ALPHA -.120 CLM .00830
CN .00000
CY .03560 CYN -.03770 CBL .00000 CAF .00000 CAB .00000
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 3302/ 0 RVL = 5.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.966
ALPHA -.140 CLM .01030
CN .00000
CY .02640 CYN -.02900 CBL .00000 CAF .00000 CAB .02350
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000



MSFC 570 (1A31F) (S3/2)/(G3)/(T12) (S3/2)

(R83576) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

RUN NO. 3265/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.070	-.01030	.00240	.02170	-.02430	.00000	.00000	.01330
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3267/ 0 RN/L = 5.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.030	-.01880	.01670	.00960	-.01640	.00000	.00000	.00460
	GRADIENT	.62667	-.55667	-.32000	.54667	.00000	.00000	-.13333

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

RUN NO. 3372/ 0 RN/L = 4.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-.070	.00320	-.01010	.03110	-.02900	.00000	.00000	.03730
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3371/ 0 RN/L = 5.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-.120	-.00270	-.00560	.03060	-.02960	.00000	.00000	.03530
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3370/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-.160	-.00560	-.00390	.02960	-.02970	.00000	.00000	.03750
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

BETA = .000 COAFLC = 319.000
DELTAZ = .140 RUDDER = .000
X-SR9 = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPACAP = .000

PARAMETRIC DATA

BETA = .000 COAFLC = 319.000
DELTAZ = .140 RUDDER = .000
X-SR9 = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPACAP = .000

MSFC 570 (1A31F) (S3/2)/(G3)/(T7) (S3/2)

(R83577) (04 OCT 73)

WSFC 570(1A31F) (S3/2)/(C3)/(T7) (S3/2)

(R83S77) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.3490 IN.
5.3130 IN. YMRP =
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFIG = 319.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 J-91NC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3369/ 0 RN/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-.150	-.01040	.00290	.03940	-.03920	.00000	.00000	.03990
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3368/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-.150	-.01440	.00610	.04010	-.04190	.00000	.00000	.04360
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3367/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-.120	-.01610	.00920	.03700	-.04000	.00000	.00000	.03960
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3362/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.957	-.140	-.01600	.00960	.02530	-.02430	.00000	.00000	.02900
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3360/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.080	-.01560	.00810	.02270	-.02500	.00000	.00000	.01360
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3361/ 0 RN/L = 5.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.01840	.01600	.01280	-.01800	.00000	.00000	-.00080
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



MSFC 570(1A31F) (S3/2)/(C3)/(T13) (S3/2)

(R03S79) (04 OCT 73)

REFERENCE DATA

SR EF =
LR EF =
BR EF =
SCALE =

9720 SQ. IN. XMRP = 2.5490 IN.
3130 IN. YMRP = .0000 IN.
3130 IN. ZMRP = .0000 IN.
0040

PARAMETRIC DATA

BETA =	.000	CONFIG =	320,000
DELTAZ =	.140	RUDDER =	.000
X-SR8 =	.000	CRBINC =	.500
SPACER =	.000	SPADIA =	.000
SPAGAP =	.000		

RUN NO. 3382/ 0 RNL = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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RUN NO. 3381/ 0  RN/L = 5.91  GRADIENT INTERVAL = -5.00/ 5.00

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[illegible]

RUN NO.	3380	0	RN/L	6.19	GRADIENT INTERVAL	-5.00/ 5.00
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[illegible]

RUN NO.	3379	0	RN/L =	6.48	GRADIENT INTERVAL =	-5.00/	5.00
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MACH		CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	- .150	-.01020	.00260	.03920	-.03910	.00000	.00000	.03710
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3378/ 0	RN/L = 6.60	GRADIENT INTERVAL = -5.00/ 5.00
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[illegible]

UN NO. 3365/ 0	RVL = 6.11	GRADIENT INTERVAL = -5.00/ 5.00
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[illegible]

UN NO. 3364/0 RN/L = 6.61 GRADIENT INTERVAL = -5.09/ 3.09

[illegible]

MSFC 370(1A31F) (S3/2)/(C3)/(T13)(S3/2)

(R63S78) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
.9720 SQ. IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
5.3130 IN. .0040

BETA = .000 COAFIC = 320.000
DELTAZ = .140 RUDDER = .000
X-SR9 = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 3338/ 0 RIVL = 4.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH
2.990

ALPHA CN CLM
-.080 -.01490 .00690
GRADIENT .00000 .00000 .00000

CY CYN
.02160 -.02440
.00000 .00000

CAB
CAF
.01500
.00000

RUN NO. 3339/ 0 RIVL = 5.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH
4.960

ALPHA CN CLM
-.020 -.01440 .01180
GRADIENT .00000 .00000 .00000

CY CYN
.01440 -.01750
.00000 .00000

CAB
CAF
.00000
.00000

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN XMRP = 2.5490 IN.
.9720 SQ. IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 COAFIC = 321.000
DELTAZ = .140 RUDDER = .000
X-SR9 = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

MSFC 370(1A31F) (S3/2)/(C3)/(T11)(S3/2)

(R63S79) (04 OCT 73)

RUN NO. 3238/ 0 RIVL = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH
.899

ALPHA CN CLM
-10.000 -.06370 .01850
-8.000 -.03290 .01690
-6.000 -.04070 .01320
-4.000 -.02770 .00730
-2.000 -.01610 .00200
.000 -.00570 -.00240
2.000 .00360 -.00930
4.000 .01650 -.01430
6.000 .02310 -.01710
8.000 .03340 -.02090
10.000 .04600 -.02490
GRADIENT .00350 -.00257 .00119

CY CYN
-.04580 .01110
-.02430 .00070
-.00340 -.01060
.01330 -.01970
.02320 -.02640
.03360 .00000
.02910 -.02960
.02320 .00000
.01340 -.01730
-.00140 -.00790
-.02250 .00440
-.00119 -.00056

CAB
CAF
.03420
.00000

CAB
CAF
.03230
.00000

CAB
CAF
.03110
.00000

CAB
CAF
.03040
.00000

CAB
CAF
.02990
.00000

CAB
CAF
.02970
.00000

CAB
CAF
.03000
.00000

CAB
CAF
.03040
.00000

CAB
CAF
.03090
.00000



MSFC 370 (IASIF) (S3/2)/(C3)/(T11)/(S3/2)

(R83579) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 321.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRDINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3239/ 0 RNVL = 5.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.08090	.01980	-.03160	.01190	.00000	.00000	.04530
1.249	-9.000	-.08200	.01490	-.02270	-.00200	.00000	.00000	.04350
1.249	-8.000	-.04630	.01150	.00550	-.01710	.00000	.00000	.04290
1.249	-4.000	-.03410	.01030	.02810	-.03120	.00000	.00000	.04310
1.249	-2.000	-.02450	.00970	.04120	-.04120	.00000	.00000	.04300
1.249	.000	-.01600	.00920	.04160	-.04230	.00000	.00000	.04270
1.249	2.000	-.00560	.00330	.03540	-.03750	.00000	.00000	.04250
1.249	4.000	.00680	-.00340	.02820	-.03220	.00000	.00000	.04720
1.249	6.000	.01840	-.00990	.01900	-.02680	.00000	.00000	.04860
1.249	8.000	.02920	-.01310	.00380	-.01790	.00000	.00000	.04690
1.249	10.000	.04570	-.02110	-.01890	-.00590	.00000	.00000	.04620
GRADIENT		.00503	-.00169	-.00028	.00009	.00000	.00000	.00039

RUN NO. 3252/ 0 RNVL = 5.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.000	-10.000	-.10110	.05420	-.02850	.01030	.00000	.00000	.00940
4.000	-9.000	-.08410	.04600	-.02340	.00870	.00000	.00000	.00940
4.000	-8.000	-.06600	.03640	-.01420	.00320	.00000	.00000	.00930
4.000	-4.000	-.04760	.02610	-.00210	-.00550	.00000	.00000	.00920
4.000	-2.000	-.03260	.01930	.01060	-.01600	.00000	.00000	.00990
4.000	.000	-.02130	.01610	.01930	-.02360	.00000	.00000	.00990
4.000	2.000	-.00810	.01010	.01830	-.02390	.00000	.00000	.00990
4.000	4.000	.00310	.00460	.01000	-.01800	.00000	.00000	.00930
4.000	6.000	.01850	-.00330	.00140	-.01110	.00000	.00000	.00900
4.000	8.000	.03640	-.01260	-.00680	-.00490	.00000	.00000	.00790
4.000	10.000	.05560	-.02230	-.01670	.00090	.00000	.00000	.00750
GRADIENT		.00629	-.00261	.00159	-.00164	.00000	.00000	-.00010

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

.9720 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFC = 321.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBITAL = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3236/ 0 RN/L = 4.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.604	-.040	.00260	-.00860	.03280	-.02920	.00000	.00000	.03040
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3237/ 0 RN/L = 5.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-.080	-.00190	-.00490	.03190	-.03020	.00000	.00000	.02930
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3240/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.052	-.110	-.01360	.00690	.03960	-.03930	.00000	.00000	.02590
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3247/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-.110	-.01660	.00990	.03690	-.04060	.00000	.00000	.03610
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3249/ 0 RN/L = 6.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.961	-.110	-.01630	.00930	.02600	-.02820	.00000	.00000	.02580
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3251/ 0 RN/L = 4.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.070	-.01670	.00870	.02450	-.02740	.00000	.00000	.01530
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3255/ 0 RN/L = 5.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.01840	.01730	.01230	-.01930	.00000	.00000	.00320
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



WSFC 570(1A31F) (S3/2)/(C3) (112)/(S3/2)

(R03581) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 322.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SFAGAP = .000

RUN NO. 3243/ 0 RVL = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.06800	.02160	-.04580	.01000	.00000	.00000	.03610
.902	-8.000	-.05540	.01900	-.02310	-.00040	.00000	.00000	.03370
.902	-6.000	-.04150	.01430	-.00270	-.01080	.00000	.00000	.03150
.902	-4.000	-.02850	.00820	.01370	-.01980	.00000	.00000	.03060
.902	-2.000	-.01650	.00240	.02540	-.02700	.00000	.00000	.02960
.902	.000	-.00610	-.00210	.03050	-.02970	.00000	.00000	.02970
.902	2.000	.00530	-.00820	.02830	-.02640	.00000	.00000	.02950
.902	4.000	.01680	-.01450	.02290	-.02410	.00000	.00000	.03150
.902	6.000	.02570	-.01770	.01330	-.01750	.00000	.00000	.03120
.902	8.000	.03610	-.02150	-.00130	-.00800	.00000	.00000	.03480
.902	10.000	.04660	-.02540	-.02180	.00420	.00000	.00000	.03530
	GRADIENT	.00560	-.00280	.00107	-.00040	.00000	.00000	.00000

RUN NO. 3242/ 0 RVL = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.08100	.01990	-.05030	.01130	.00000	.00000	.04540
1.248	-8.000	-.06240	.01560	-.02260	-.00190	.00000	.00000	.04350
1.248	-6.000	-.04680	.01230	.00550	-.01690	.00000	.00000	.04320
1.248	-4.000	-.03420	.01040	.02770	-.03080	.00000	.00000	.04330
1.248	-2.000	-.02370	.00930	.04080	-.04080	.00000	.00000	.04270
1.248	.000	-.01560	.00800	.04090	-.04210	.00000	.00000	.04210
1.248	2.000	-.00540	.00320	.03490	-.03730	.00000	.00000	.04250
1.248	4.000	.00680	-.00300	.02830	-.03220	.00000	.00000	.04730
1.248	.01770	.00810	.00980	.01990	-.02620	.00000	.00000	.04780
1.248	6.000	.03000	-.01310	.00260	-.01670	.00000	.00000	.04630
1.248	10.000	.04600	-.02040	-.02120	-.00360	.00000	.00000	.04630
	GRADIENT	.00501	-.00164	-.00024	.00004	.00000	.00000	.00000

MSFC 570 (1A31F) (S3/2)/(C3) (T12)/(S3/2)

(R03S81) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF10 = 322.000
DELTAZ = .140 RUDDER = .000
X-SR8 = .000 GRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3233/ 0 RN/L = 6.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.000	-10.000	-.09950	.03320	-.02740	.01060	.00000	.00000	.00000
4.000	-8.000	-.08130	.04400	-.02150	.00930	.00000	.00000	.00000
4.000	-6.000	-.06290	.03410	-.01290	.00330	.00000	.00000	.00000
4.000	-4.000	-.04400	.02330	-.00150	-.00490	.00000	.00000	.00000
4.000	-2.000	-.02840	.01570	.01220	-.01600	.00000	.00000	.00000
4.000	.000	-.01910	.01340	.02100	-.02400	.00000	.00000	.00000
4.000	2.000	-.00340	.00720	.02060	-.02490	.00000	.00000	.00000
4.000	4.000	.00620	.00110	.01300	-.01940	.00000	.00000	.00000
4.000	6.000	.01950	-.00480	.00400	-.01230	.00000	.00000	.00000
4.000	8.000	.03420	-.01090	-.00700	-.00390	.00000	.00000	.00000
4.000	10.000	.05010	-.01740	-.02040	.00590	.00000	.00000	.00000
4.000	GRADIENT	.00617	-.00294	.00197	-.00199	.00000	.00000	-.00007

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

MSFC 570 (1A31F) (S3/2)/(C3) (T12)/(S3/2)

(R03S82) (04 OCT 73)

PARAMETRIC DATA

BETA = .000 COAF10 = 322.000
DELTAZ = .140 RUDDER = .000
X-SR8 = .000 GRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3245/ 0 RN/L = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.803	-.040	.00080	-.00700	.03290	-.03040	.00000	.00000	.00000
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3244/ 0 RN/L = 5.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-.090	-.00340	-.00320	.03260	-.03090	.00000	.00000	.00000
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



MSFC 570 (IA31F) (S3/2) / (C3) (T12) / (S3/2)

(R63582) (04 OCT 73)

REFERENCE DATA

SCALE
BRUF
LUF
BRUF

LREF = 9.3130 IN.

REF = 5.3130 IN.

SCALE = .0040

.9720 SQ. IN XMRP = 2.5490 IN.

5.3130 IN. YMRP = .0000 IN.

8.3130 IN. ZMRP = .9999 IN.

PARAMETRIC DATA

BETA	=	.000	CONF16	=	322.000
DELTA2	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRG1NC	=	.000
SPACER	=	.000	SPADIA	=	.000
SPACAP	=	.000			

DELTA Z = .140 RUDDER =

X-SRB = .000 CRGINC =

SPACER = .999 SPADIA =

SPAGAP = .050

RUN NO. 3241/ 0 RVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

GRADIENT	.00000	.00000	.00000	.00000	.00000
	.00000	.00000	.00000	.00000	.00000

RUN NO. 3246/ 0 RVL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH		CN	CLM	CY	CYN	CBL	CAF	CA3
1.462	- .100	-.01650	.03990	.03990	-.04090	.00000	.00000	.03370
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000

	GRADIENT	.00000	.00000	.00000	.00000
					.00000

RUN NO. 3249/ 0 RV/L = 6.89 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

GRADIENT	.00000	.00000	.00000	.00000	.00000
					.00000

RUN NO. 3250/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH		CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	- .060	- .01410	.00610	.02310	-.02680	.00000	.00000	.01470
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

GRADIENT 000000' 000000' 000000' 000000' 000000' 000000'

RUN NO. 3234/ D RN/L = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

GRADIENT	000000	000000	000000	000000	000000
000000	000000	000000	000000	000000	000000

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

-.9720 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFC = 323.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBTNC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 3338/ 0 RN/L = 5.00 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-.040	.00420	-.00930	.03140	-.02920	.00000	.00000	.03650
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3339/ 0 RN/L = 5.97 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.798	-.070	.00000	-.00700	.03010	-.02960	.00000	.00000	.03360
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3340/ 0 RN/L = 6.30 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-.100	-.00260	-.00580	.02990	-.03040	.00000	.00000	.03480
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3342/ 0 RN/L = 6.64 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.046	-.090	-.00740	.00110	.03770	-.03770	.00000	.00000	.02930
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3341/ 0 RN/L = 6.73 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-.110	-.01180	.00310	.03990	-.04210	.00000	.00000	.04530
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3349/ 0 RN/L = 6.32 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.456	-.090	-.01370	.00790	.03770	-.04090	.00000	.00000	.03940
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3350/ 0 RN/L = 7.09 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.947	-.110	-.01340	.00690	.02570	-.02990	.00000	.00000	.02840
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000



[illegible]

MSFC 570 (1A31F) (S3/2)/(Q3) (1131)/(S3/2)

(R03S84) (04 OCT 73)

REFERENCE DATA

SREF = .9720 SQ. IN XMRP = 2.5490 IN.
 LRFP = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 324.000
 DELTA2 = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 3376/ 0 RIVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.046	-.100	-.01030	.00340	.03620	-.03360	.00000	.00000	.02570
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3377/ 0 RIVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-.110	-.01420	.00600	.03950	-.04120	.00000	.00000	.04460
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3366/ 0 RIVL = 6.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-.110	-.01600	.00930	.03640	-.03910	.00000	.00000	.03260
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3363/ 0 RIVL = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.959	-.110	-.01570	.00920	.02420	-.02790	.00000	.00000	.02750
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3356/ 0 RIVL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.080	-.01520	.00850	.02200	-.02450	.00000	.00000	.01490
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 3357/ 0 RIVL = 5.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.030	-.01550	.01350	.01480	-.01900	.00000	.00000	-.00040
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



MSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R03T01) (21 SEP 73)

REFERENCE DATA

SREF = 8.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 200.000
 DELTAZ = .143 RUDDER = .000
 X-SRB = .000 CRG1INC = -.500
 SPACER = .999 SPADIA = .000
 SPACAP = .000

RUN NO. 2001/ 0 RIVL = 5.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-1.14970	-.03550	.00940	-.00660	-.00110	.02410	.03170
.598	-8.000	-.12050	-.03060	.01060	-.00750	-.00090	.02380	.03090
.598	-6.000	-.08620	-.03250	.00650	-.00750	-.00100	.02230	.03250
.598	-5.000	-.07000	-.03270	.00490	-.00740	-.00110	.02260	.03310
.598	-4.000	-.05730	-.02830	.00700	-.00710	-.00100	.02460	.03130
.598	-2.000	-.03450	-.02160	.00540	-.00650	-.00090	.02450	.03110
.598	.000	-.01150	-.01710	.00210	-.00640	-.00090	.02460	.02920
.598	2.000	.00450	-.00560	.00190	-.00490	-.00110	.02490	.02310
.598	4.000	.01600	.00410	-.00390	-.00250	-.00130	.03090	.01590
.598	5.000	.02390	.00730	-.00750	-.00160	-.00120	.03050	.01220
.598	6.000	.03360	.01320	-.00780	-.00140	-.00120	.03070	.01160
.598	8.000	.05770	.02310	-.00430	-.00130	-.00090	.02770	.01110
.598	10.000	.08900	.02460	.00330	-.00190	-.00050	.01400	.00990
GRADIENT	.00934	.00402	-.00125	.00056	-.00002	-.00002	.00091	-.00203

RUN NO. 2002/ 0 RIVL = 6.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.803	-10.000	-1.16060	-.03520	.00170	-.00170	-.00040	.02990	.03790
.803	-8.000	-.13630	-.02710	.00390	-.00310	-.00030	.03170	.03390
.803	-6.000	-.11230	-.02190	.00090	-.00320	-.00090	.03290	.02960
.803	-5.000	-.09950	-.01910	-.00040	-.00290	-.00100	.03310	.02700
.803	-4.000	-.08580	-.01520	.00000	-.00220	-.00090	.03270	.02630
.803	-2.000	-.05390	-.01250	.00120	-.00340	-.00070	.02910	.03090
.803	.000	-.03380	-.00590	.00750	-.00030	.00000	.02930	.02610
.803	2.000	-.02000	.00390	.01130	.00170	-.00020	.03150	.01790
.803	4.000	-.00060	.01120	-.00450	-.00130	-.00070	.03150	.01610
.803	5.000	.01090	.01450	-.00090	-.00260	-.00060	.03110	.01640
.803	6.000	.02700	.01690	.00190	-.00320	.00010	.03240	.01440
.803	8.000	.05390	.02180	.00100	-.00220	.00060	.03390	.00910
.803	10.000	.06340	.02990	-.00960	.00170	-.00140	.03150	.00240
GRADIENT	.01067	.00340	-.00045	.00017	.00017	.00004	-.00011	-.00133

MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R63T01) (21 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1990 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 CENFIC = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 SPRING = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2003/ 0 RM/L = 6.34 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.899	-10.000	-.17320	-.03480	-.00290	.00020	-.00060	.03000	.04480
.899	-8.000	-.14600	-.02630	-.00460	.00140	-.00010	.03320	.03990
.899	-6.000	-.11870	-.01890	-.00610	.00140	.00000	.03420	.03610
.899	-4.000	-.10360	-.01520	-.00660	.00130	-.00010	.03360	.03520
.899	-2.000	-.09380	-.01210	-.00570	.00120	-.00020	.03200	.03510
.899	.000	-.06740	-.00560	-.00410	.00090	-.00030	.03390	.03230
.899	2.000	-.01760	.00460	-.00720	.00200	-.00050	.03390	.02710
.899	4.000	.00410	.01000	-.00780	.00230	-.00030	.03250	.02490
.899	6.000	.01030	.01440	-.00910	.00250	-.00040	.03300	.02210
.899	8.000	.02190	.01860	-.00920	.00220	-.00050	.03390	.02030
.899	10.000	.04810	.02500	-.00720	.00210	.00090	.03490	.01730
.899	GRADIENT	.01190	.02855	-.00940	.00360	.00030	.03230	.01340
				-.00026	.00015	-.00003	.00003	.01370
								-.00159

RUN NO. 2004/ 0 RM/L = 6.65 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.049	-10.000	-.18210	-.03380	.00150	-.00080	-.00060	.06470	.03700
1.049	-8.000	-.14970	-.02520	.00230	-.00050	-.00060	.06560	.03390
1.049	-6.000	-.12220	-.01700	-.00330	.00160	-.00050	.06430	.02990
1.049	-4.000	-.10680	-.01370	-.00360	.00170	-.00050	.06520	.02760
1.049	-2.000	-.09900	-.01110	-.00040	.00040	-.00020	.06410	.02520
1.049	.000	-.06100	-.00460	-.00370	.00190	-.00030	.06770	.02210
1.049	2.000	-.01370	.00610	-.00340	.00320	-.00060	.07000	.01590
1.049	4.000	.01070	.01030	-.00300	.00070	.00060	.07030	.01190
1.049	6.000	.02250	.01280	-.00670	.00090	-.00010	.06640	.01150
1.049	8.000	.03870	.01580	-.00260	.00000	-.00020	.06490	.01130
1.049	10.000	.07230	.01950	.00200	-.00130	.00010	.06400	.01220
1.049	GRADIENT	.01670	.02866	-.00150	-.00090	.00010	.06470	.01010
		.01267	.00266	-.00037	-.00003	-.00009	.00003	.00190
								-.00174



DATE 05 NOV 74

TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R03T01) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CR9INC = -.900
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2003/ 0 RM/L = 6.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.20480	-.03020	-.00040	-.00150	-.00030	.04390	.04320
1.248	-6.000	-.16740	-.02620	-.00010	-.00220	-.00080	.04440	.04020
1.248	-6.000	-.13120	-.02120	-.00280	-.00100	-.00060	.04640	.03580
1.248	-3.000	-.11480	-.01770	-.00370	-.00060	-.00030	.04720	.03400
1.248	-4.000	-.10010	-.01360	-.00410	-.00070	-.00040	.04760	.03250
1.248	-2.000	-.07030	-.00410	-.00470	-.00010	-.00010	.04990	.02820
1.248	.000	-.05260	.00910	-.00910	.00120	-.00070	.04860	.02540
1.248	2.000	-.03230	.01990	-.00370	.00040	-.00010	.04920	.02150
1.248	4.000	-.01120	.02370	-.00570	-.00010	-.00010	.04650	.02150
1.248	5.000	-.00070	.02860	-.00660	.00000	-.00100	.04000	.02230
1.248	6.000	.00810	.03330	-.00430	.00100	-.00270	.04560	.01940
1.248	8.000	.04380	.04180	.00260	.00100	-.00200	.04630	.01560
1.248	10.000	.09890	.03960	.00900	-.00170	.00340	.04030	.01700
GRADIENT		.01114	.00483	-.00025	.00007	-.00002	-.00024	-.00123

RUN NO. 2036/ 0 RM/L = 5.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.460	-10.000	-.21230	-.02390	-.00680	.00140	-.00100	.04190	.04160
1.460	-6.000	-.16480	-.02700	-.00660	.00210	-.00110	.04350	.03830
1.460	-6.000	-.12440	-.02370	-.00670	.00180	-.00070	.04490	.03590
1.460	-3.000	-.10690	-.02360	-.00740	.00180	-.00060	.04490	.03430
1.460	-4.000	-.09010	-.02050	-.00830	.00200	-.00060	.04600	.03250
1.460	-2.000	-.05620	-.01340	-.00870	.00190	-.00070	.04710	.02990
1.460	.000	-.03100	-.00290	-.00820	.00200	-.00020	.04680	.02540
1.460	2.000	-.01770	.01100	-.00760	.00130	-.00010	.04430	.02370
1.460	4.000	-.00090	.02310	-.00630	.00070	.00000	.04290	.02730
1.460	5.000	.01110	.03120	-.00580	.00050	.00010	.04270	.02690
1.460	6.000	.02370	.03330	-.00700	.00070	.00020	.04100	.02650
1.460	8.000	.04470	.04730	-.00690	.00010	-.00020	.04040	.02640
1.460	10.000	.04300	.06720	-.00130	-.00240	-.00190	.04620	.02340
GRADIENT		.01133	.00561	.00021	-.00014	.00006	-.00033	-.00074

NSFC 370 (1A31F) (T9) / (03) / (S3/2) / (S3/2)

(R83T01) (21 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1990 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 CCONF = 200.000
DELTA2 = .140 RUDDER = .000
X-SRB = .000 CRDINC = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2037/ 0 RM/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.959	-10.000	-26240	.01190	-.00060	-.00120	-.00100	.09770	.03570
1.959	-8.000	-20360	.00230	-.00270	-.00160	-.00070	.09640	.02910
1.959	-6.000	-15590	.00090	.00160	-.00220	.00010	.03850	.02870
1.959	-5.000	-13470	.00040	.00100	-.00170	.00000	.09950	.02800
1.959	-4.000	-11500	.00000	-.00110	-.00090	-.00030	.10020	.02590
1.959	-2.000	-.07640	-.00040	-.00420	-.00090	-.00050	.10040	.02520
1.959	.000	-.04270	.00310	-.00310	-.00100	-.00020	.10330	.02040
1.959	2.000	-.01530	.01050	-.00390	.00390	-.00050	.10390	.01960
1.959	4.000	.01210	.01960	-.01210	.00260	-.00090	.10290	.01570
1.959	5.000	.02190	.02190	-.00420	-.00030	-.00090	.10290	.01370
1.959	6.000	.04990	.02270	-.00210	-.00120	-.00090	.10250	.01240
1.959	8.000	.09080	.02570	-.00010	-.00210	-.00050	.10100	.01290
1.959	10.000	.12900	.03050	.00270	-.00390	-.00010	.03770	.01450
GRADIENT		.01607	.00225	-.00102	.00034	-.00006	.00035	-.00143

RUN NO. 2060/ 0 RM/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.25770	.03180	-.00370	.00110	-.00040	.09120	.01810
2.990	-8.000	-.21900	.02690	-.00110	.00000	-.00060	.09050	.01610
2.990	-6.000	-.17420	.02090	-.00240	-.00010	.00030	.09120	.01560
2.990	-5.000	-.15230	.01650	-.00360	.00010	.00040	.09130	.01540
2.990	-4.000	-.13230	.01380	-.00460	.00050	-.00020	.09150	.01540
2.990	-2.000	-.09190	.00870	-.00860	.00140	-.00060	.09090	.01530
2.990	.000	-.05460	.00580	-.01070	.00230	-.00080	.09980	.01440
2.990	2.000	-.01690	.00520	-.00940	.00200	-.00010	.09120	.01290
2.990	4.000	.01970	.00530	-.00340	.00050	-.00050	.09260	.01110
2.990	5.000	.03760	.00550	-.00430	.00000	-.00090	.09270	.01030
2.990	6.000	.05470	.00490	-.00390	.00000	-.00040	.09210	.00930
2.990	8.000	.09310	.00160	-.00460	.00000	-.00020	.09150	.00900
2.990	10.000	.13970	-.00340	-.00550	-.00050	-.00110	.09150	.00750
GRADIENT		.01997	-.00109	-.00007	.00001	-.00004	.00012	-.00053



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R83101) (21 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2059/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-2.5870	.03940	.00190	-.00090	-.00100	.09840	.01480
3.480	-8.000	-2.1330	.02990	-.00200	-.00260	-.00070	.09980	.01340
3.480	-6.000	-1.7160	.02350	-.00480	.00070	-.00020	.09970	.01260
3.480	-5.000	-1.5080	.02060	-.00520	.00090	-.00030	.09830	.01240
3.490	-4.000	-.12980	.01740	-.00460	.00050	-.00070	.09950	.01210
3.480	-2.000	-.08780	.01210	-.00480	.00050	-.00030	.09790	.01250
3.480	.000	-.03040	.00690	-.00940	.00170	-.00050	.09400	.01210
3.480	2.000	-.01390	.00480	-.00870	.00190	-.00050	.09780	.01100
3.480	4.000	.02030	.00440	-.00630	.00090	-.00050	.09950	.00950
3.480	5.000	.03770	.00380	-.00550	.00050	-.00050	.09990	.00890
3.480	6.000	.05660	.00280	-.00560	.00030	-.00040	.09910	.00840
3.480	8.000	.09910	-.00180	-.00510	.00000	-.00060	.09910	.00790
3.480	10.000	.14660	-.01020	-.00380	-.00050	-.00070	.09920	.00780
GRADIENT		.01879	-.00167	-.00018	.00003	-.00001	.00002	-.00034

RUN NO. 2058/ 0 RN/L = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.19930	.02330	-.01890	.00390	.00190	.09590	.00590
4.960	-8.000	-.16800	.02500	-.00780	.00150	-.00310	.09460	.00610
4.960	-6.000	-.13450	.02170	-.01040	.00250	-.00240	.09370	.00630
4.960	-5.000	-.11680	.01990	-.01050	.00260	-.00150	.09310	.00640
4.960	-4.000	-.09580	.01490	-.00280	.00000	-.00100	.09270	.00620
4.960	-2.000	-.06470	.01090	-.00430	.00030	-.00110	.09290	.00610
4.960	.000	-.03930	.01080	-.00910	.00000	-.00090	.09270	.00600
4.960	2.000	-.00870	.00990	-.00920	.00300	-.00190	.09320	.00550
4.960	4.000	.02980	.00470	-.00830	.00270	-.00200	.09410	.00510
4.960	5.000	.04720	.00280	-.00920	.00230	-.00160	.09450	.00500
4.960	6.000	.06360	.00130	-.01000	.00200	-.00140	.09510	.00480
4.960	8.000	.09050	-.00050	-.01090	.00170	-.00140	.09640	.00420
4.960	10.000	.10980	-.00160	-.01020	.00150	-.00160	.09900	.00310
GRADIENT		.01589	-.00140	-.00026	.00016	-.00007	.00013	-.00014

MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R93T02) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040
 BETA = .000 CCAIF16 = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 GRABING = .500
 SPACER = .000 SPAD1A = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2020/ 0 RIVL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.16030	-.03080	.00930	-.00390	-.00090	.02200	.03310
.599	-8.000	-.13580	-.02610	.00860	-.00700	-.00060	.02540	.02730
.599	-6.000	-.10630	-.02490	.00860	-.00720	-.00120	.02360	.03010
.599	-5.000	-.09010	-.02420	.00590	-.00690	-.01140	.02190	.03170
.599	-4.000	-.07220	-.02230	.00730	-.00640	-.00090	.02450	.03060
.599	-2.000	-.04990	-.01540	.00670	-.00360	-.00060	.02470	.02930
.599	.000	-.03310	-.00960	.00140	-.00480	-.00090	.02420	.02690
.599	2.000	-.00910	-.00130	.00210	-.00360	-.00030	.02300	.02310
.599	4.000	.00620	.00900	-.00320	-.00150	-.00040	.03390	.01670
.599	5.000	.01210	.01450	-.00680	-.00090	-.00090	.03770	.01310
.599	5.000	.02240	.01990	-.00420	-.00210	-.00070	.03400	.01040
.599	6.000	.04470	.02790	.00130	-.00390	-.00060	.02940	.00710
.599	10.000	.06790	.03760	.00500	-.00040	-.00080	.02970	.00530
GRADIENT	.01007	.00395	-.00127	-.00005	.00060	.00005	.00130	-.00179

RUN NO. 2019/ 0 RIVL = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.798	-10.000	-.17000	-.03090	-.00370	-.00040	-.00060	.02780	.03730
.798	-8.000	-.14360	-.02410	-.00350	-.00160	-.00070	.03190	.03110
.798	-6.000	-.11790	-.01920	-.00350	-.00070	-.00020	.03390	.02770
.798	-5.000	-.10450	-.01510	-.00390	-.00030	-.00010	.03390	.02690
.798	-4.000	-.09080	-.01150	-.00360	-.00070	.00040	.03300	.03520
.798	-2.000	-.06610	-.00810	-.00420	-.00090	.00120	.02740	.03250
.798	.000	-.04290	-.00070	.01360	-.00790	.00090	.02700	.02940
.798	2.000	-.02740	.01090	.00340	-.00360	.00040	.02940	.02210
.798	4.000	-.00300	.01420	-.00780	-.00020	-.00040	.03360	.01620
.798	5.000	.01110	.01490	-.00750	-.00100	-.00050	.03490	.01370
.798	6.000	.01760	.02100	-.00420	-.00140	-.00060	.03390	.01390
.798	8.000	.04070	.02990	-.00280	-.00130	-.00070	.02970	.01350
.798	10.000	.06000	.02930	-.01190	.00040	-.00090	.02560	.01090
GRADIENT	.01120	.00323	.00002	.00002	-.00009	-.00000	.00013	-.00141



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (IA31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R93702) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2018/ 0 RNVL = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-1.7560	-.03120	-.00620	.00130	-.00030	.02940	.04640
.902	-8.000	-1.15010	-.02320	-.00740	.00190	-.00060	.03190	.04260
.902	-6.000	-1.12760	-.01440	-.00970	.00210	-.00070	.03260	.03960
.902	-5.000	-1.11510	-.01070	-.01000	.00200	-.00070	.03190	.03760
.902	-4.000	-1.01110	-.00800	-.00920	.00170	-.00080	.03020	.03770
.902	-2.000	-.07690	-.00190	-.01030	.00130	-.00090	.03200	.03410
.902	.000	-.03260	.00460	-.01120	.00210	-.00020	.03090	.03140
.902	2.000	-.02390	.00740	-.01020	.00160	-.00050	.03220	.02640
.902	4.000	.00040	.01260	-.00650	.00140	-.00060	.03390	.02400
.902	5.000	.01090	.01630	-.00510	.00150	-.00050	.03360	.02370
.902	6.000	.02320	.01890	-.00360	.00160	-.00060	.03390	.02160
.902	8.000	.04970	.02410	-.00790	.00190	-.00050	.03250	.01940
.902	10.000	.07810	.02970	-.00440	.00220	-.00010	.02930	.02130
GRADIENT		.01269	.00262	.00039	-.00003	.00003	.00026	-.00155

RUN NO. 2016/ 0 RNVL = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-1.9150	-.02750	.00490	-.00190	-.00070	.05960	.03900
1.050	-8.000	-1.15970	-.02120	.00100	.00010	-.00080	.06630	.03630
1.050	-6.000	-1.12860	-.01370	-.00320	.00160	-.00050	.06660	.03330
1.050	-5.000	-1.11380	-.00990	-.00390	.00190	-.00050	.06700	.03160
1.050	-4.000	-.09950	-.00620	-.00290	.00190	-.00080	.06790	.02990
1.050	-2.000	-.07010	.00000	-.00320	.00200	-.00090	.06920	.02630
1.050	.000	-.04620	.00770	-.00640	.00310	-.00090	.06970	.02010
1.050	2.000	-.02150	.01170	-.00400	.00180	-.00060	.06900	.01690
1.050	4.000	.00710	.01490	-.00100	-.00010	-.00030	.06700	.01520
1.050	5.000	.02160	.01710	-.00040	-.00050	-.00030	.06560	.01460
1.050	6.000	.03400	.02000	.00090	-.00020	.00000	.06390	.01350
1.050	8.000	.06260	.02440	.00260	-.00010	.00000	.06190	.01370
1.050	10.000	.09750	.02630	.00210	-.00070	-.00120	.06140	.01230
GRADIENT		.01334	.00270	.00026	-.00023	.00004	-.00010	-.00191

(R3102) (21 SEP 73)

MSFC 570(1A31F)(T9)/(C3)/(S3/2)/(S3/2)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLC = 200.000
DELTAZ = .140 RUDDER = .000
X-SPB = .000 TRINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2017/ 0 RNVL = 6.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-.21030	-.02730	-.00330	-.00090	-.00060	.03360	.04440
1.249	-8.000	-.17190	-.02190	-.00090	-.00160	-.00020	.03550	.04200
1.249	-6.000	-.13790	-.01640	-.00320	-.00140	-.00030	.03630	.03990
1.249	-4.000	-.12230	-.01280	-.00490	-.00090	-.00070	.03660	.03730
1.249	-2.000	-.10720	-.00830	-.00620	-.00010	-.00070	.03670	.03620
1.249	.000	-.09000	.00210	-.00640	.00000	-.00060	.03660	.03350
1.249	2.000	-.03910	.01440	-.00630	-.00020	-.00030	.03620	.03230
1.249	4.000	-.00750	.02140	-.00390	-.00020	-.00060	.03720	.02670
1.249	5.000	.00490	.03220	-.00430	-.00040	-.00040	.03670	.02720
1.249	6.000	.01480	.03910	-.00230	-.00060	-.00010	.03520	.02990
1.249	8.000	.04180	.04630	-.00190	-.00070	.00140	.03360	.02840
1.249	10.000	.07920	.04860	-.00120	-.00030	.00170	.03000	.02790
GRADIENT		.01232	.00434	.00015	-.00000	-.00030	.07560	.02940
						.00005	-.00006	-.00106

RUN NO. 2034/ 0 RNVL = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-10.000	-.22090	-.01750	-.00610	.00070	-.00060	.09440	.03930
1.461	-8.000	-.17390	-.02350	-.00930	.00210	-.00100	.09560	.03720
1.461	-6.000	-.13220	-.02240	-.00820	.00230	-.00070	.09720	.03300
1.461	-4.000	-.11360	-.02010	-.00920	.00210	-.00060	.09700	.03170
1.461	-2.000	-.09660	-.01700	-.00930	.00190	-.00050	.09670	.03100
1.461	.000	-.06300	-.00930	-.00630	.00100	-.00030	.09420	.02720
1.461	2.000	-.03960	.00040	-.00940	.00190	-.00030	.09810	.02240
1.461	4.000	-.02410	.01550	-.00970	.00200	-.00030	.09590	.02140
1.461	5.000	.00590	.03030	-.00990	.00090	-.00050	.09470	.02330
1.461	6.000	.01230	.03610	-.00470	.00030	-.00040	.09470	.02360
1.461	8.000	.04470	.04200	-.00760	.00160	-.00010	.09490	.02160
1.461	10.000	.04900	.04900	-.00900	.00190	-.00010	.09500	.02010
GRADIENT		.01150	.00578	.00200	-.00190	-.00100	.09410	.02440
				.00025	-.00011	.00001	-.00027	-.00092



MSFC 370 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R03T02) (21 SEP 73)

REFERENCE DATA

BREF = 8.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2039/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.966	-10.000	-.26500	.01670	.00050	-.00160	-.00070	.09950	.03390
1.966	-8.000	-.21190	.01030	.00160	-.00260	-.00040	.09760	.03010
1.966	-6.000	-.16290	.00560	-.00130	-.00180	-.00060	.09730	.02920
1.966	-5.000	-.14060	.00420	-.00240	-.00140	-.00060	.09730	.02720
1.966	-4.000	-.11990	.00360	-.00270	-.00120	-.00030	.09750	.02610
1.966	-2.000	-.07840	.00400	-.00370	-.00110	-.00050	.09720	.02500
1.966	.000	-.04650	.00800	-.00330	-.00040	-.00060	.09910	.02120
1.966	2.000	-.01730	.01470	-.00700	.00040	-.00070	.10110	.01690
1.966	4.000	.01160	.02310	-.00360	.00090	-.00070	.10390	.01190
1.966	5.000	.02740	.02690	-.00420	-.00040	-.00060	.10440	.01040
1.966	6.000	.04560	.02870	-.00400	-.00030	-.00050	.10430	.00930
1.966	8.000	.08740	.02990	-.00390	-.00040	-.00040	.10220	.00940
1.966	10.000	.13480	.02820	-.00040	-.00030	-.00030	.09690	.00930
GRADIENT		.01654	.00236	-.00030	.00014	-.00002	.00076	-.00176

RUN NO. 2055/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	-.27470	.04240	-.00200	-.00090	-.00150	.09050	.01720
2.990	-8.000	-.21960	.03090	.00020	-.00210	-.00080	.09040	.01500
2.990	-6.000	-.17590	.02160	-.00310	-.00090	-.00160	.08940	.01450
2.990	-5.000	-.15570	.01950	-.00410	.00000	-.00180	.08910	.01430
2.990	-4.000	-.13440	.01690	-.00560	.00060	-.00120	.08910	.01420
2.990	-.09400	.01240	-.00920	-.00090	.00040	-.00110	.08910	.01410
2.990	.000	-.03470	.00970	-.00910	.00120	-.00090	.08960	.01390
2.990	2.000	-.01860	.00720	-.01000	.00160	-.00090	.09100	.01130
2.990	4.000	.01860	.00760	-.00660	.00050	-.00090	.09180	.00960
2.990	5.000	.03710	.00770	-.00450	-.00010	-.00070	.09190	.00860
2.990	6.000	.05190	.00750	-.00440	-.00080	-.00090	.09220	.00740
2.990	8.000	.09230	.00380	-.00370	-.00150	-.00090	.09220	.00540
2.990	10.000	.14990	-.00450	-.00150	-.00110	-.00070	.09140	.00430
GRADIENT		.01919	-.00113	.00032	.00002	.00009	.00032	-.00059

MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(P83T02) (21 SEP 73)

REFERENCE DATA

SREF = 8.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 200.000
DELTA = .140 RUDDER = .000
X-SQB = .000 CRDINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2056/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.26610	.04270	-.00360	-.00040	-.00230	.09820	.01460
3.480	-8.000	-.21710	.03390	-.00030	-.00180	-.00130	.09930	.01340
3.480	-6.000	-.17390	.02770	.00090	-.00220	-.00110	.09740	.01240
3.480	-5.000	-.15380	.02470	-.00030	-.00170	-.00110	.09740	.01190
3.480	-4.000	-.13480	.02150	-.00390	-.00060	-.00100	.09900	.01150
3.490	-2.000	-.09110	.01620	-.00430	-.00030	-.00030	.09830	.01200
3.490	.000	-.05390	.01120	-.00620	.00100	-.00030	.09830	.01180
3.480	2.000	-.01540	.00780	-.00600	.00110	-.00090	.09930	.01040
3.490	4.000	.01990	.00670	-.00460	.00340	.00000	.09930	.00930
3.480	5.000	.03720	.00620	-.00400	.00000	.00030	.09700	.00760
3.480	6.000	.03650	.00320	-.00290	-.00070	-.00010	.09530	.00730
3.480	8.000	.09770	.00030	-.00210	-.00150	-.00090	.09940	.00660
3.490	10.000	.14180	-.00780	-.00350	-.00100	-.00060	.09970	.00590
GRADIENT		.01917	-.00197	-.00027	.00017	.00011	.00023	-.00041

RUN NO. 2057/ 0 RN/L = 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
4.960	-10.000	-.21720	.03400	-.01740	.00420	-.00050	.09170	.00390
4.960	-8.000	-.17260	.02680	-.00990	.00240	-.00150	.09360	.00390
4.960	-6.000	-.13930	.02430	-.00760	.00150	-.00120	.09340	.00630
4.960	-5.000	-.12390	.02290	-.00800	.00140	-.00120	.09310	.00640
4.960	-4.000	-.10660	.01980	-.01030	.00090	-.00190	.09300	.00520
4.960	-2.000	-.07600	.01540	-.01240	.00140	-.00190	.09240	.00510
4.960	.000	-.03980	.01430	-.00960	.00170	-.00130	.09340	.00580
4.960	2.000	-.00700	.01190	-.00620	.00110	-.00120	.09470	.00430
4.960	4.000	.02850	.00720	-.00640	.00090	-.00050	.09430	.00430
4.960	5.000	.04670	.00490	-.00690	.00090	-.00010	.09530	.00420
4.960	6.000	.06300	.00270	-.00710	.00090	-.00000	.09550	.00370
4.960	8.000	.09100	-.00120	-.00730	.00140	-.00030	.09450	.00290
4.960	10.000	.11340	-.00500	-.00780	.00270	-.00120	.09470	.00290
GRADIENT		.01702	-.00164	.00037	-.00003	.00014	.00023	-.00023



MSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R83T03) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFLG = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2021/ 1 RNVL = 4.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.600	-10.000	-.16980	-.02490	.00920	-.00340	-.00060	.02470	.02750
.600	-8.000	-.14520	-.01930	.00920	-.00340	.00000	.02930	.02250
.600	-6.000	-.10780	-.01980	.00990	-.00750	-.00010	.02400	.02750
.600	-5.000	-.09100	-.01960	.00840	-.00780	-.00020	.02250	.02910
.600	-4.000	-.08150	-.01710	.00480	-.00640	-.00020	.02770	.02480
.600	-2.000	-.05880	-.00980	.00300	-.00490	.00020	.02710	.02550
.600	.000	-.03910	-.00360	.00090	-.00490	.00040	.02660	.02300
.600	2.000	-.01910	.00390	.00180	-.00390	.00010	.02790	.01900
.600	4.000	-.00090	.01270	-.00030	-.00350	-.00020	.02920	.01670
.600	5.000	.00720	.01590	-.00230	-.00350	-.00050	.03050	.01470
.600	6.000	.01700	.02160	-.00160	-.00330	.00000	.03170	.00990
.600	8.000	.03810	.03250	.00140	-.00290	.00020	.02970	.00440
.600	10.000	.05970	.04250	.00340	-.00210	-.00060	.02220	.00670
GRADIENT		.00992	.00365	-.00065	.00039	-.00002	.00052	-.00130

RUN NO. 2022/ 0 RNVL = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	-.17910	-.02690	-.00110	-.00150	-.00020	.02980	.03360
.799	-8.000	-.15080	-.02010	-.00110	-.00180	.00000	.03380	.02880
.799	-6.000	-.12440	-.01440	-.00150	-.00250	-.00060	.03430	.02590
.799	-5.000	-.11220	-.01150	-.00230	-.00220	-.00060	.03400	.02520
.799	-4.000	-.10010	-.00850	-.00310	-.00130	-.00020	.03400	.02460
.799	-2.000	-.07600	-.00240	-.00630	-.00040	-.00030	.03140	.02500
.799	.000	-.05150	.00440	.00360	-.00290	-.00010	.03020	.02280
.799	2.000	-.03290	.01350	.00040	-.00160	.00010	.03050	.01900
.799	4.000	-.00500	.01590	-.00120	-.00260	.00040	.03090	.01930
.799	5.000	.00990	.01650	.00050	-.00400	-.00090	.03100	.01900
.799	6.000	.01440	.02250	-.00350	-.00200	-.00060	.03060	.01590
.799	8.000	.03620	.03090	-.00520	-.00070	-.00030	.02940	.01180
.799	10.000	.08390	.03070	.00210	-.00340	.00010	.02850	.01100
GRADIENT		.01197	.00299	.00039	-.00018	-.00001	-.00033	-.00071

MSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R03T03) (21 SEP 73)

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 JROINC = 1.500
 SPACER = .000 SPADIA = .000
 SPASAP = .000

RUN NO. 2023/ 0 RNVL = 6.23 GRADIENT INTERVAL = -9.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.18760	-.02500	-.00750	.00250	-.00020	.02560	.04530
.900	-8.000	-.15960	-.01660	-.00420	.00160	-.00020	.03160	.04160
.900	-6.000	-.13490	-.00940	-.00810	.00160	-.00020	.03320	.03890
.900	-5.000	-.12180	-.00510	-.00990	.00160	-.00020	.03330	.03330
.900	-4.000	-.10730	-.00250	-.00730	.00140	-.00010	.03320	.03450
.900	-2.000	-.08290	.00210	-.00990	.00130	-.00100	.03230	.03290
.900	.000	-.06010	.00910	-.01020	.00160	-.00020	.03210	.02990
.900	2.000	-.03390	.01190	-.01120	.00170	-.00070	.03270	.02550
.900	4.000	-.00570	.01630	-.00790	.00170	-.00060	.03350	.02360
.900	5.000	.00770	.01950	-.00560	.00170	-.00020	.03350	.02340
.900	6.000	.01910	.02170	-.00690	.00160	-.00030	.03290	.02290
.900	8.000	.04520	.02650	-.00700	.00140	-.00050	.03130	.02110
.900	10.000	.07660	.03250	-.00160	.00120	-.00020	.02940	.01970
GRADIENT		.01290	.00242	.00013	.00003	-.00002	.00004	-.00131

RUN NO. 2023/ 0 RNVL = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.20160	-.02190	.00390	-.00140	-.00090	.06790	.03610
1.050	-8.000	-.17080	-.01510	.00340	.00000	-.00090	.06710	.03440
1.050	-6.000	-.13610	-.00940	.00270	.00010	-.00020	.06910	.03120
1.050	-5.000	-.12060	-.00510	-.00020	.00020	-.00020	.06930	.02960
1.050	-4.000	-.10750	-.00190	-.00260	.00070	-.00070	.06960	.02930
1.050	-2.000	-.07780	.00430	-.00260	.00100	-.00030	.06960	.02490
1.050	.000	-.05370	.01200	-.00490	.00170	-.00130	.06990	.01930
1.050	2.000	-.02710	.01580	-.00390	.00120	-.00090	.06950	.01710
1.050	4.000	.00120	.01930	-.00030	-.00050	-.00050	.06890	.01590
1.050	5.000	.01500	.02020	.00100	-.00110	-.00050	.06890	.01510
1.050	6.000	.02700	.02300	.00100	-.00070	-.00040	.06870	.01550
1.050	8.000	.05570	.02780	.00240	-.00050	-.00020	.06840	.01370
1.050	10.000	.09270	.03140	.00660	-.00150	-.00030	.06900	.01330
GRADIENT		.01349	.00255	.00014	-.00012	-.00002	-.00003	-.00153

MSFC 370(1A31F)(T9)/(C3)/(S3/2)/(S3/2)

(R03T03) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = 1.900
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2024/ 0 RN/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.459	-10.000	-.21740	-.02310	-.00140	-.00160	-.00090	.05280	.04360
1.459	-8.000	-.17860	-.01770	-.00010	-.00220	-.00030	.06390	.04200
1.459	-6.000	-.14460	-.01220	-.00270	-.00200	-.00060	.06440	.03900
1.459	-4.000	-.11290	-.00900	-.00400	-.00140	-.00080	.06460	.03780
1.459	-2.000	-.08350	-.00270	-.00490	-.00060	-.00040	.06490	.03670
1.459	.000	-.05370	.01860	-.00360	-.00060	-.00060	.06470	.03850
1.459	2.000	-.03950	.02350	-.00360	-.00090	-.00060	.06460	.03390
1.459	4.000	-.01080	.03150	-.00400	-.00020	-.00030	.06570	.02790
1.459	5.000	.00220	.03560	-.00300	-.00060	-.00030	.06530	.02910
1.459	6.000	.01360	.04110	-.00110	-.00140	-.00190	.06210	.03010
1.459	8.000	.03920	.05000	-.00170	-.00160	.00190	.07920	.03000
1.459	10.000	.06930	.05490	-.00960	.00090	-.00430	.07530	.02990
GRADIENT		.01302	.00435	.00009	.00007	.00004	.00001	-.00101

RUN NO. 2032/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.459	-10.000	-.22830	-.01290	-.00320	.00040	-.00070	.09540	.03820
1.459	-8.000	-.19400	-.01760	-.00790	.00170	-.00090	.09550	.03670
1.459	-6.000	-.13270	-.01960	-.00670	.00210	-.00060	.09750	.03140
1.459	-4.000	-.11330	-.01770	-.00610	.00190	-.00050	.09760	.02990
1.459	-2.000	-.10000	-.01340	-.00590	.00130	-.00060	.09690	.02930
1.459	.000	-.07190	-.00410	-.00710	.00090	-.00070	.09900	.02500
1.459	2.000	-.04780	.00700	-.00810	.00130	-.00060	.09860	.01970
1.459	4.000	-.03220	.02220	-.00910	.00190	-.00090	.09690	.01810
1.459	6.000	-.01640	.03770	-.00360	.00100	-.00040	.09620	.01970
1.459	8.000	.00620	.04390	-.00400	.00060	-.00020	.09630	.02030
1.459	10.000	.01190	.04970	-.00690	.00160	-.00020	.09630	.01870
GRADIENT		.03620	.05590	-.00820	.00210	-.00040	.09560	.01790
		.09970	.05380	.00030	-.00100	-.00030	.09350	.02290
		.01055	.00629	.00009	-.00006	.00002	-.00013	-.00111

MSFC 570 (IAS1F) (T9) / (Q3) / (S3/2) / (S3/8)

(R3103) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 COMFIC = 200.000
DELTAZ = .140 RUDDER = .000
X-SFB = .000 SFBINC = 1.500
SPACER = .000 SPADIA = .000
SPACAP = .000

PARAMETRIC DATA

RUN NO. 2041/ 0 RN/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
1.967	-10.000	-2.7200	.02260	.00150	-.00240	-.00060	.00020	.03240
1.967	-8.000	-.22010	.01710	.00290	-.00310	-.00010	.00790	.02920
1.967	-6.000	-.17100	.01160	-.00150	-.00190	-.00090	.00660	.02750
1.967	-5.000	-.14910	.01040	-.00320	-.00150	-.00090	.00630	.02640
1.967	-4.000	-.12900	.01040	-.00420	-.00130	-.00060	.00620	.02500
1.967	-2.000	-.05330	.01020	-.00430	-.00120	-.00030	.00620	.02320
1.967	.000	-.05390	.01530	-.00330	-.00030	-.00030	.00990	.01950
1.967	2.000	-.02630	.02290	-.00420	-.00030	-.00040	.01190	.01350
1.967	4.000	.00210	.03020	-.00430	-.00040	-.00030	.0240	.05730
1.967	5.000	.01820	.03320	-.00490	-.00040	-.00010	.0230	.00950
1.967	6.000	.03970	.03460	-.00390	-.00030	.00000	.0250	.00920
1.967	8.000	.08030	.03640	-.00150	-.00150	.00000	.0060	.00710
1.967	10.000	.11670	.03920	.00070	-.00330	.00000	.00630	.00970
GRADIENT		.01844	.00243	-.00009	.00012	.00006	.00074	-.00190

RUN NO. 2034/ 0 RN/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAS
2.990	-10.000	-.24850	.03420	-.00140	-.00130	-.00150	.00020	.01660
2.990	-8.000	-.21980	.03220	.00070	-.00240	-.00140	.00100	.01410
2.990	-6.000	-.19520	.02710	-.00460	-.00140	-.00100	.00990	.01290
2.990	-5.000	-.16310	.02340	-.00700	-.00060	-.00090	.00960	.01260
2.990	-4.000	-.14150	.02120	-.00740	-.00010	-.00090	.00900	.01250
2.990	-2.000	-.09730	.01570	-.00640	-.00020	-.00050	.00100	.01260
2.990	.000	-.09760	.01130	-.00660	.00040	.00000	.00210	.01160
2.990	2.000	-.02320	.01190	-.00700	.00070	-.00070	.00250	.01020
2.990	4.000	.00730	.01190	-.00820	.00050	-.00100	.00220	.00950
2.990	5.000	.02340	.01100	-.00990	.00050	-.00090	.00220	.00740
2.990	6.000	.04430	.00990	-.00950	.00040	-.00070	.00230	.00540
2.990	8.000	.08600	.00590	-.00690	.00010	-.00030	.00340	.00290
2.990	10.000	.12980	.00020	-.00410	-.00030	-.00070	.00390	.00190
GRADIENT		.01970	-.00119	-.00015	.00011	-.00001	.00024	-.00052

MSFC 570 (1A31F) (T9) / (S3/2) / (S3/2)

(R03T03) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .005 CONFIC = 200.000
 DELTAZ = .145 RUDDER = .000
 X-SRB = .000 CRGINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2053/ 0 RM/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	-.27090	.04600	-.00730	-.00010	-.00180	.04600	.01440
3.480	-8.000	-.22350	.03690	-.00300	-.00110	-.00140	.04940	.01300
3.480	-6.000	-.17630	.03030	-.00120	-.00160	-.00100	.04920	.01160
3.480	-5.000	-.15480	.02740	-.00160	-.00150	-.00080	.04930	.01110
3.480	-4.000	-.13600	.02440	-.00300	-.00120	-.00070	.04960	.01100
3.480	-2.000	-.09760	.01930	-.00560	-.00040	-.00090	.04950	.01160
3.480	.000	-.05890	.01400	-.00690	.00040	-.00030	.04950	.01110
3.480	2.000	-.02070	.01110	-.00660	.00090	-.00040	.04960	.00990
3.480	4.000	.01540	.00950	-.00410	.00090	.00000	.04960	.00790
3.480	5.000	.03370	.00820	-.00310	-.00040	.00000	.04940	.00680
3.480	6.000	.05140	.00640	-.00450	-.00060	-.00030	.04970	.00590
3.480	8.000	.09350	.00090	-.00580	-.00060	-.00060	.04970	.00490
3.480	10.000	.14670	-.00760	-.00320	-.00110	.00060	.04990	.00310
GRADIENT	.01891	-.00191	-.00015	-.00015	.00014	.00009	.00025	-.00041

RUN NO. 2052/ 0 RM/L = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
4.960	-10.000	-.20500	.03270	-.00730	.00120	.00000	.04490	.00510
4.960	-8.000	-.16130	.03060	-.01330	.00240	-.00210	.04310	.00330
4.960	-6.000	-.14500	.02550	-.01180	.00100	-.00220	.04350	.00330
4.960	-5.000	-.12490	.02280	-.01000	.00020	-.00190	.04360	.00320
4.960	-4.000	-.10410	.02120	-.00730	-.00020	-.00190	.04270	.00340
4.960	-2.000	-.07650	.01770	-.01000	.00100	-.00160	.04290	.00340
4.960	.000	-.02620	.00960	-.01020	.00110	-.00140	.04200	.00330
4.960	2.000	.00230	.00860	-.01260	.00210	-.00100	.04260	.00420
4.960	4.000	.02340	.00770	-.00030	-.00270	-.00110	.04330	.00350
4.960	5.000	.03920	.00570	.00580	-.00490	-.00130	.04550	.00350
4.960	6.000	.05700	.00370	.00450	-.00340	-.00130	.04760	.00330
4.960	8.000	.09890	-.00020	-.02140	.01010	-.00040	.04950	.00310
4.960	10.000	.14920	-.00370	-.07830	.03760	.00160	.04920	.00280
GRADIENT	.01653	-.00175	.00113	-.00015	-.00036	.00009	.00029	-.00021

MSFC 570(1A31F)(T9)/(C3)/(S3/2)/(S3/2)

(083704) (21 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COXFIG = 200.000
 DELTAZ = .280 FLUDDER = .000
 X-SFB = .000 ORBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2010/ 0 RN/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.600	-10.000	-.15350	-.03240	.01080	-.00710	-.00100	.02400	.02480
.600	-8.000	-.12170	-.03010	.01030	-.00710	-.00080	.01980	.02830
.600	-6.000	-.08670	-.03170	.01020	-.00720	-.00020	.02250	.02740
.600	-5.000	-.07190	-.03070	.00910	-.00700	.00000	.02460	.02390
.600	-4.000	-.06120	-.02540	.00820	-.00650	.00010	.02390	.02610
.600	-2.000	-.04110	-.01830	.00140	-.00470	-.00020	.02440	.02330
.600	.000	-.02260	-.01100	.00380	-.00740	-.00190	.02380	.02580
.600	2.000	-.00110	-.00090	.00330	-.00630	-.00100	.03280	.01220
.600	4.000	.01730	.00990	.00330	-.00000	.00000	.03070	.00920
.600	5.000	.02600	.01440	.00250	-.00330	-.00010	.02740	.00930
.600	6.000	.03590	.01820	-.00290	-.00190	-.00030	.02850	.00370
.600	8.000	.05910	.02420	-.00580	-.00100	-.00070	.02750	.00250
.600	10.000	.08710	.02810	-.00530	-.00360	-.00110	.01920	.00590
GRADIENT	.00982	.00446	.00052	-.00029	-.00002	-.00002	.00055	-.00192

RUN NO. 2009/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
.797	-10.000	-.15520	-.03610	.00230	-.00230	-.00050	.02750	.03210
.797	-8.000	-.13350	-.02690	.00450	-.00350	-.00020	.03010	.02710
.797	-6.000	-.10630	-.02090	.00100	-.00330	.00000	.03090	.02320
.797	-5.000	-.09310	-.01820	-.00040	-.00320	-.00020	.03060	.02220
.797	-4.000	-.08280	-.01430	.00010	-.00350	-.00030	.02970	.02220
.797	-2.000	-.05060	-.01300	.00040	-.00450	-.00160	.02800	.02510
.797	.000	-.02930	-.00370	-.00320	-.00170	-.00060	.02880	.01930
.797	2.000	-.01030	.00370	-.00460	.00000	.00020	.03090	.01250
.797	4.000	.01420	.00960	-.00090	-.00240	-.00020	.03070	.01080
.797	5.000	.02650	.01200	.00030	-.00350	-.00050	.03000	.01050
.797	6.000	.03600	.01550	-.00050	-.00300	-.00050	.02960	.00840
.797	8.000	.05980	.02100	-.00250	-.00160	-.00040	.02910	.00550
.797	10.000	.08990	.02480	-.00330	-.00030	-.00030	.02800	.00370
GRADIENT	.01185	.00311	-.00012	.00013	.00005	.00005	.00007	-.00144



MSFC 570 (1A31F) (T9) / (S3/2) / (S3/2)

(R03T04) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF = 200.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2008/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.903	-10.000	-.16850	-.03320	-.00090	-.00110	-.00130	.03210	.04020
.903	-8.000	-.14210	-.02330	.00070	-.00140	-.00130	.03250	.03710
.903	-6.000	-.11710	-.01650	-.00290	.00000	-.00130	.03220	.03230
.903	-5.000	-.10380	-.01310	-.00470	.00060	-.00110	.03250	.03120
.903	-4.000	-.08950	-.01110	-.00600	.00060	-.00090	.03010	.03210
.903	-2.000	-.06460	-.00410	-.00330	.00040	-.00090	.03100	.02950
.903	.000	-.04050	.00190	-.00720	.00180	-.00070	.03140	.02470
.903	2.000	-.01360	.00440	.00090	-.00190	-.00070	.03130	.02120
.903	4.000	.01250	.00960	-.00090	-.00180	-.00090	.03260	.01750
.903	5.000	.02430	.01180	-.00310	-.00020	-.00070	.03310	.01560
.903	6.000	.03610	.01490	-.00520	.00030	-.00040	.03260	.01430
.903	8.000	.06280	.02050	-.00370	.00060	-.00010	.03040	.01350
.903	10.000	.09420	.02470	-.00230	.00030	-.00060	.02690	.01490
GRADIENT	.01278	.00245	.00034	-.00034	-.00020	.00003	.00015	-.00170

RUN NO. 2007/ 0 RM/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	-.18510	-.03040	.00200	-.00170	-.00090	.06790	.03620
1.053	-8.000	-.15040	-.02290	.00320	-.00100	-.00070	.06950	.03090
1.053	-6.000	-.12150	-.01450	-.00100	.00000	-.00020	.06960	.02610
1.053	-5.000	-.10710	-.01070	-.00270	.00010	-.00120	.06990	.02360
1.053	-4.000	-.09180	-.00730	-.00230	-.00020	-.00030	.07020	.02100
1.053	-2.000	-.06140	-.00100	-.00240	.00060	-.00190	.07130	.01710
1.053	.000	-.03810	.00560	-.00630	.00260	-.00090	.06910	.01170
1.053	2.000	-.01050	.00900	-.00490	.00130	-.00030	.06960	.00740
1.053	4.000	.01670	.01130	-.00190	-.00030	-.00070	.06740	.00740
1.053	5.000	.02940	.01400	-.00120	-.00060	-.00100	.06640	.00790
1.053	6.000	.04390	.01660	-.00010	-.00110	-.00090	.06550	.00710
1.053	8.000	.07490	.02080	.00180	-.00150	-.00030	.06370	.00430
1.053	10.000	.10730	.02370	.00290	-.00050	-.00040	.06120	-.00010
GRADIENT	.01354	.00240	.00005	-.00005	-.00003	.00018	-.00037	-.00170

(R83T04) (21 SEP 73)

MSFC 570 (1A31F) (T9) / (S3/2) / (S3/2)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

9.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 CONFIC = 200.000
DELTAZ = .280 BUDDER = .000
X-SRB = .000 ORBINC = -.500
SPACER = .000 SPADIA = .000
SPACAP = .000

PARAMETRIC DATA

RUN NO. 2006/ 0 RN/L = 6.75 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	-.19770	-.03050	.00290	-.00370	-.00090	.09200	.04640
1.247	-8.000	-.16110	-.02630	.00110	-.00390	-.00070	.09360	.03990
1.247	-6.000	-.12340	-.02170	.00030	-.00320	-.00070	.09320	.03320
1.247	-4.000	-.08520	-.01990	.00000	-.00270	-.00060	.09360	.03150
1.247	-2.000	-.03990	-.00710	-.00090	-.00210	-.00050	.09340	.03110
1.247	.000	-.04200	.00630	-.00710	-.00120	-.00070	.09330	.02790
1.247	2.000	-.01840	.01360	-.00400	-.00060	-.00040	.09480	.02260
1.247	4.000	.00430	.02350	-.00400	-.00090	-.00040	.09250	.02210
1.247	5.000	.01490	.02790	-.00330	-.00040	-.00070	.09190	.02190
1.247	6.000	.02370	.03340	-.00460	-.00030	-.00190	.09250	.01910
1.247	9.000	.03630	.04190	-.00250	-.00050	-.00170	.09290	.01430
1.247	10.000	.09680	.04640	.00440	-.00130	.00160	.07920	.01450
GRADIENT		.01169	.00494	-.00042	.00020	.00001	-.00035	-.00113

RUN NO. 2035/ 0 RN/L = 6.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-10.000	-.21400	-.02190	-.00390	-.00010	-.00060	.09330	.04260
1.461	-8.000	-.16790	-.02620	-.00710	.00120	-.00100	.09630	.03930
1.461	-6.000	-.12370	-.02420	-.00760	.00200	-.00090	.09740	.03400
1.461	-4.000	-.10240	-.02320	-.00570	.00170	-.00070	.09700	.03260
1.461	-2.000	-.08190	-.02270	-.00530	.00100	-.00070	.09600	.03190
1.461	.000	-.04830	-.01750	-.00700	.00090	-.00050	.09570	.02930
1.461	2.000	-.02260	-.00740	-.00850	.00210	-.00040	.09720	.02320
1.461	4.000	.00130	.00390	-.00860	.00220	-.00070	.09740	.01940
1.461	5.000	.01460	.01870	-.00650	.00100	-.00040	.09710	.01930
1.461	6.000	.02360	.02640	-.00520	.00030	-.00020	.09650	.01910
1.461	9.000	.03590	.03240	-.00490	.00040	-.00010	.09490	.01910
1.461	10.000	.06090	.04340	-.00460	.00020	-.00030	.09290	.01900
GRADIENT		.08230	.03440	-.00330	-.00010	-.00100	.09470	.01710
		.01233	.00507	-.00001	-.00004	.00004	.00004	-.00161



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TABULATED SOURCE DATA - NSFC 370

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MSFC 370 (1A31F) (T9) / (Q3) / (33/2) / (33/2)

(R83T04) (21 SEP 73)

REFERENCE DATA

SREF = 0.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 200.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 CRBTIC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2039/ 0 RW/L = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CEL	CAF	CAB
1.967	-10.000	-.25670	.01430	.00060	-.00230	-.00080	.09760	.03230
1.967	-6.000	-.20310	.00670	-.00090	-.00230	-.00090	.09710	.02920
1.967	-6.000	-.15600	.00230	-.00230	-.00190	-.00140	.09690	.02540
1.967	-5.000	-.13360	.00100	-.00320	-.00170	-.00140	.09740	.02730
1.967	-4.000	-.11160	.00060	-.00370	-.00150	-.00110	.09820	.02610
1.967	-2.000	-.06680	-.00030	-.00360	-.00120	-.00020	.09760	.02520
1.967	.000	-.03440	.00410	-.00400	-.00040	.00000	.09920	.02200
1.967	2.000	-.00690	.01120	-.00560	.00020	-.00020	.10140	.01740
1.967	4.000	.02390	.01740	-.00570	.00010	-.00020	.10310	.01270
1.967	5.000	.04180	.01950	-.00420	-.00030	-.00020	.10320	.01040
1.967	6.000	.06260	.02030	-.00270	-.00070	-.00010	.10320	.00830
1.967	8.000	.10360	.02050	-.00130	-.00120	-.00010	.10230	.00550
1.967	10.000	.14900	.01960	-.00220	-.00130	-.00030	.10030	.00470
GRADIENT		.01710	.00203	-.00019	.00016	.00011	.00063	-.00172

RUN NO. 2049/ 0 RW/L = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CEL	CAF	CAB
2.990	-10.000	-.25600	.03410	-.00010	-.00150	-.00100	.09070	.01620
2.990	-6.000	-.21200	.02690	.00060	-.00270	-.00130	.09040	.01440
2.990	-6.000	-.16610	.01970	-.00010	-.00280	-.00130	.09040	.01330
2.990	-5.000	-.14440	.01690	-.00020	-.00270	-.00130	.09030	.01290
2.990	-4.000	-.12520	.01540	.00020	-.00270	-.00140	.09060	.01290
2.990	-2.000	-.09130	.01050	.00060	-.00250	-.00090	.09050	.01360
2.990	.000	-.04560	.00620	-.00450	-.00060	-.00140	.09020	.01250
2.990	2.000	-.01200	.00370	-.00640	.00020	-.00120	.09090	.01100
2.990	4.000	.02430	.00350	-.00310	-.00100	-.00090	.09020	.00970
2.990	5.000	.04390	.00430	-.00350	-.00100	-.00090	.09040	.00950
2.990	6.000	.06590	.00150	-.01210	.00190	-.00100	.09060	.00720
2.990	8.000	.10900	-.00390	-.01370	.00230	-.00090	.09150	.00460
2.990	10.000	.15030	-.00640	-.00930	-.00610	-.00060	.09260	.00300
GRADIENT		.01864	-.00125	-.00049	.00023	.00004	-.00004	-.00043

(R83T04) (21 SEP 73)

MSFC 570(1A31F)(T9)/(03)/(S3/2)/(S3/2)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COEFFIC = 200.000
DELTAZ = .290 RUDDER = .000
X-SYS = .000 CRBINC = -.500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 2030/ 0 RNVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.24950	.03360	.00060	-.00140	-.00090	.04940	.01430
3.480	-9.000	-.20640	.02940	.00100	-.00210	-.00040	.04570	.01300
3.480	-8.000	-.16220	.02170	-.00310	-.00110	-.00120	.04920	.01210
3.480	-5.000	-.14160	.01970	-.00430	-.00090	-.00130	.04930	.01190
3.480	-4.000	-.12340	.01730	-.00390	-.00100	-.00110	.04970	.01170
3.480	-2.000	-.08390	.01310	-.00340	-.00100	-.00090	.04930	.01220
3.480	.000	-.04600	.00990	-.00450	.00000	-.00050	.04860	.01190
3.480	2.000	-.00940	.00660	-.00360	.00030	-.00060	.04970	.01040
3.490	4.000	.02680	.00310	-.00360	-.00040	-.00050	.04940	.00960
3.480	5.000	.04540	.00390	-.00240	-.00090	-.00060	.04910	.00890
3.480	6.000	.06470	.00140	-.00350	-.00050	-.00060	.04970	.00900
3.480	8.000	.10690	-.00450	-.00400	-.00050	-.00040	.04970	.00650
3.480	10.000	.15300	-.01100	-.00090	-.00100	.00040	.09150	.00540
GRADIENT		.01872	-.00151	.00006	.00006	.00009	.00014	-.00029

RUN NO. 2031/ 0 RNVL = 5.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.19490	.02790	-.01000	.00260	-.00090	.04350	.00650
4.960	-9.000	-.15970	.02070	-.01110	.00120	-.00130	.04400	.00370
4.960	-6.000	-.12810	.01860	-.00730	.00000	-.00190	.04240	.00580
4.960	-5.000	-.11240	.01750	-.00630	-.00010	-.00190	.04240	.00540
4.960	-4.000	-.09550	.01430	-.00940	.00030	-.00160	.04240	.00550
4.960	-2.000	-.06070	.01110	-.00930	.00060	-.00090	.04470	.00530
4.960	.000	-.03210	.00990	-.00750	.00090	-.00050	.04420	.00530
4.960	2.000	.00200	.00590	-.00990	.00130	-.00010	.04550	.00370
4.960	4.000	.03560	.00340	-.00910	.00080	-.00450	.04500	.00390
4.960	5.000	.05040	.00250	-.00770	.00060	-.00360	.04600	.00390
4.960	6.000	.06530	.00050	-.00960	.00070	-.00390	.04610	.00310
4.960	8.000	.09620	-.00760	-.01440	.00260	.00290	.04600	.00190
4.960	10.000	.13210	-.02320	-.02690	.00800	.02090	.04630	.00190
GRADIENT		.01826	-.00143	.00001	.00009	-.00037	.00033	-.00022



MSFC 570(1A31F)(T9)/(G3)/(S3/2)/(S3/2)

(R83T03) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF = 200.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACET = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2011/ 1 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.599	-10.000	-.15900	-.03090	.00910	-.00600	-.00070	.02340	.02640
.599	-8.000	-.13500	-.02470	.00590	-.00570	-.00020	.02630	.02190
.599	-6.000	-.09930	-.02420	.00790	-.00670	-.00050	.02300	.02940
.599	-5.000	-.08220	-.02390	.00880	-.00690	-.00060	.02150	.03150
.599	-4.000	-.07020	-.02080	.00960	-.00620	-.00010	.02250	.03020
.599	-2.000	-.04550	-.01620	.00310	-.00590	-.00070	.02340	.02760
.599	.000	-.02500	-.01030	.00430	-.00720	-.00100	.02590	.02310
.599	2.000	-.00560	-.00930	.00440	-.00650	-.00090	.02690	.02050
.599	4.000	.01140	.00970	.00190	-.00490	-.00020	.02740	.01690
.599	5.000	.01950	.01440	.00020	-.00410	.00000	.02900	.01270
.599	6.000	.02820	.01960	-.00020	-.00340	-.00020	.02970	.00980
.599	8.000	.05140	.02830	.00190	-.00390	-.00020	.02820	.00390
.599	10.000	.08240	.03470	.00840	-.00650	.00030	.02570	.00290
GRADIENT		.01016	.00393	-.00090	.00020	.00003	.00066	-.00193

RUN NO. 2012/ 1 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.797	-10.000	-.16640	-.03140	-.00020	-.00160	-.00120	.02830	.03380
.797	-8.000	-.13990	-.02370	.00010	-.00220	-.00090	.03250	.02860
.797	-6.000	-.11390	-.01760	.00000	-.00350	-.00080	.03270	.02570
.797	-5.000	-.10250	-.01430	.00120	-.00330	-.00070	.03230	.02490
.797	-4.000	-.09170	-.01030	.00390	-.00170	-.00040	.03190	.02390
.797	-2.000	-.06020	-.00750	.00140	-.00310	-.00010	.02970	.02740
.797	.000	-.04000	.00000	.00310	-.00170	-.00030	.02810	.02340
.797	2.000	-.02000	.00780	-.00470	-.00120	-.00090	.03040	.01690
.797	4.000	-.00100	.01610	-.00090	-.00310	-.00030	.03390	.01240
.797	5.000	.00950	.01980	.00110	-.00390	.00010	.03340	.01060
.797	6.000	.02400	.02190	.00070	-.00330	.00010	.03270	.00990
.797	8.000	.05320	.02660	-.00030	-.00230	-.00030	.03000	.00830
.797	10.000	.08130	.03190	-.00200	-.00170	-.00120	.02610	.00580
GRADIENT		.01115	.00341	.00019	-.00005	.00003	.00013	-.00153

(R03T05) (21 SEP 73)

MSFC 570 (IA31F) (T9)/(G3)/(S3/2)/(S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COXIFIC = 200.000
 DELTAZ = .250 RUDDER = .000
 X-SFB = .000 UPBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2013/ 1 RN/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.18200	-.02890	-.00490	.00200	-.00040	.03020	.04430
.899	-8.000	-.13100	-.02150	-.00330	.00150	-.00010	.03160	.03990
.899	-6.000	-.12650	-.01270	-.00560	.00210	-.00130	.03280	.03590
.899	-5.000	-.11450	-.00890	-.00750	.00220	-.00140	.03230	.03470
.899	-4.000	-.10160	-.00590	-.00970	.00210	-.00090	.03060	.03470
.899	-2.000	-.07370	.00020	-.00620	.00060	-.00030	.03270	.03050
.899	.000	-.04840	.00600	-.00730	.00130	-.00020	.03220	.02730
.899	2.000	-.02200	.00990	-.00690	.00050	-.00030	.03200	.02330
.899	4.000	.00430	.01390	-.00660	.00060	-.00030	.03360	.01970
.899	5.000	.01700	.01630	-.00720	.00110	-.00020	.03390	.01470
.899	6.000	.03040	.01990	-.00740	.00100	-.00010	.03310	.01900
.899	8.000	.05800	.02420	-.00640	.00090	-.00010	.03030	.01740
.899	10.000	.08650	.03020	-.00340	.00100	-.00010	.02640	.01910
GRADIENT		.01316	.00246	.00014	-.00013	.00010	.00021	-.00172

RUN NO. 2013/ 1 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.19440	-.02610	.00330	-.00040	-.00020	.06820	.03770
1.050	-8.000	-.16350	-.01780	.00090	.00000	-.00050	.06600	.03320
1.050	-6.000	-.13140	-.00990	.00010	.00040	-.00130	.07030	.02900
1.050	-5.000	-.11530	-.00670	-.00070	.00070	-.00140	.07090	.02760
1.050	-4.000	-.09950	-.00410	-.00220	.00110	-.00120	.06930	.02670
1.050	-2.000	-.07020	.00180	-.00510	.00210	-.00050	.06920	.02210
1.050	.000	-.04600	.00910	-.00920	.00300	-.00070	.06940	.01570
1.050	2.000	-.01730	.01230	-.00520	.00150	-.00030	.07000	.01150
1.050	4.000	.01150	.01320	-.00100	-.00020	-.00020	.06690	.01250
1.050	5.000	.02490	.01740	-.00020	-.00050	-.00020	.06450	.01320
1.050	6.000	.03780	.01990	-.00050	-.00030	.00000	.06330	.01250
1.050	8.000	.06660	.02430	-.00010	.00000	.00000	.06210	.01000
1.050	10.000	.10010	.02780	-.00200	-.00020	-.00040	.06200	.00570
GRADIENT		.01390	.00243	.00009	-.00014	.00012	-.00044	-.00167



NSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R83T05) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 200.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CR9INC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2014/ 1 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-20960	-.02660	.00010	-.00210	-.00030	.06230	.04570
1.250	-8.000	-17190	-.02220	-.00060	-.00230	-.00150	.06430	.03930
1.250	-6.000	-13180	-.01760	.00000	-.00270	-.00090	.06590	.03510
1.250	-5.000	-11420	-.01490	-.00070	-.00230	-.00060	.06630	.03390
1.250	-4.000	-.09900	-.01040	-.00240	-.00130	-.00030	.06640	.03290
1.250	-2.000	-.07250	-.00020	-.00320	-.00030	-.00030	.06710	.02990
1.250	.000	-.05010	.01200	-.00390	-.00020	-.00020	.06750	.02520
1.250	2.000	-.02660	.02020	-.00330	-.00060	-.00030	.06610	.02260
1.250	4.000	-.00210	.02900	-.00410	-.00130	-.00050	.06510	.02250
1.250	5.000	.01000	.03250	-.00350	-.00140	-.00060	.06460	.02270
1.250	6.000	.02140	.03900	-.00290	-.00100	.00000	.06440	.02160
1.250	8.000	.04910	.04690	-.00180	-.00030	.00040	.06200	.02060
1.250	10.000	.08420	.05200	-.00120	-.00080	-.00070	.07640	.02200
GRADIENT		.01223	.00477	-.00023	.00006	.00000	-.00017	-.00123

RUN NO. 2033/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	-10.000	-21890	-.01840	-.00380	.00010	-.00110	.09580	.04030
1.459	-8.000	-17030	-.02390	-.00640	.00120	-.00090	.09640	.03770
1.459	-6.000	-12950	-.02240	-.00760	.00190	-.00130	.09750	.03290
1.459	-5.000	-10940	-.02070	-.00690	.00170	-.00120	.09710	.03130
1.459	-4.000	-.08930	-.01990	-.00560	.00120	-.00090	.09600	.03070
1.459	-2.000	-.05510	-.01390	-.00720	.00090	-.00070	.09660	.02630
1.459	.000	-.02820	-.00330	-.00800	.00170	-.00060	.09400	.02040
1.459	2.000	-.00720	.00890	-.00770	.00190	-.00030	.09710	.01800
1.459	4.000	.00720	.02490	-.00710	.00100	-.00050	.09620	.01730
1.459	5.000	.01510	.03260	-.00650	.00060	-.00050	.09610	.01700
1.459	6.000	.02490	.03940	-.00590	.00030	-.00040	.09590	.01660
1.459	8.000	.04920	.04920	-.00480	.00020	-.00030	.09510	.01630
1.459	10.000	.09200	.05430	-.00310	-.00040	-.00070	.09390	.01700
GRADIENT		.01227	.00539	-.00006	-.00005	.00006	-.00004	-.00157

MSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R93705) (21 SEP 73)

REFERENCE DATA

SREF = 0.1990 SQ. IN XMRP = 2.9490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COARFIC = 250.000
 DELTAZ = .240 RUDDER = .000
 X-SPB = .000 JERINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2040/ 0 RIVL = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.965	-10.000	-.26460	.01890	.00150	-.00290	-.00060	.09100	.03090
1.965	-8.000	-.21040	.01190	.00120	-.00320	-.00030	.03700	.02720
1.965	-6.000	-.16140	.00760	.00010	-.00270	-.00030	.03720	.02640
1.965	-5.000	-.13960	.00640	-.00060	-.00220	-.00030	.03720	.02570
1.965	-4.000	-.11700	.00390	-.00170	-.00190	-.00030	.03730	.02460
1.965	-2.000	-.07640	.00670	-.00320	-.00140	-.00010	.09450	.02270
1.965	.000	-.04290	.01030	-.00400	-.00060	-.00070	.10070	.01910
1.965	2.000	-.01230	.01610	-.00450	-.00010	-.00030	.10230	.01490
1.965	4.000	.01920	.02230	-.00460	-.00020	-.00010	.10270	.01090
1.965	5.000	.03690	.02450	-.00420	-.00040	-.00000	.10270	.00990
1.965	6.000	.05730	.02490	-.00400	-.00040	.00000	.10270	.00830
1.965	8.000	.10090	.02480	-.00230	-.00090	-.00030	.10220	.00310
1.965	10.000	.14630	.02530	-.00140	-.00210	-.00060	.10090	.00190
GRADIENT	.01722	.00195	.00036	-.00036	.00020	.00001	.00065	-.00173

RUN NO. 2049/ 0 RIVL = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.26660	.03960	.00010	-.00260	-.00100	.09900	.01580
2.990	-8.000	-.21630	.02990	-.00210	-.00220	-.00110	.08900	.01400
2.990	-6.000	-.17370	.02350	-.00400	-.00160	-.00060	.08900	.01290
2.990	-5.000	-.15350	.02100	-.00450	-.00130	-.00040	.08900	.01240
2.990	-4.000	-.13270	.01940	-.00490	-.00110	-.00070	.08910	.01230
2.990	-2.000	-.08820	.01320	-.00360	-.00090	-.00090	.08910	.01270
2.990	.000	-.05140	.01020	-.00290	-.00060	-.00070	.08900	.01130
2.990	2.000	-.01290	.00900	-.00290	.00000	-.00070	.09120	.01010
2.990	4.000	.02660	.00710	-.00010	-.00200	-.00130	.09130	.00990
2.990	5.000	.04590	.00570	.00010	-.00240	-.00070	.09130	.00790
2.990	6.000	.06490	.00400	.00030	-.00220	-.00030	.09220	.00630
2.990	8.000	.10890	-.00120	.00130	-.00240	-.00010	.09310	.00300
2.990	10.000	.15140	-.00940	.00200	-.00360	-.00130	.09200	.00070
GRADIENT	.01993	.00145	.00053	-.00053	-.00009	-.00005	.00029	-.00047



HSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R03T03) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 200.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2047/ 0 RN/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	-.25910	.04170	-.00150	-.00160	-.00080	.09800	.01340
3.480	-8.000	-.21450	.03370	-.00350	-.00110	-.00040	.09760	.01250
3.480	-6.000	-.17050	.02670	-.00320	-.00110	-.00040	.09770	.01140
3.480	-5.000	-.14930	.02370	-.00360	-.00100	-.00030	.09780	.01100
3.480	-4.000	-.12950	.02120	-.00340	-.00050	-.00020	.09780	.01090
3.480	-2.000	-.08990	.01680	-.00350	-.00040	-.00080	.09790	.01150
3.480	.000	-.05180	.01370	-.00390	-.00030	-.00050	.09950	.01100
3.480	2.000	-.01340	.01130	-.00350	-.00030	-.00050	.09970	.01050
3.480	4.000	.02320	.00900	-.00440	.00000	.00000	.09930	.00930
3.480	5.000	.04190	.00750	-.00400	-.00020	.00000	.09900	.00930
3.480	6.000	.06250	.00540	-.00330	-.00040	.00000	.09990	.00790
3.480	8.000	.10450	.00000	-.00260	-.00090	.00000	.09030	.00490
3.480	10.000	.14840	-.00650	-.00300	-.00130	-.00010	.09090	.00400
GRADIENT		.01911	-.00156	.00002	.00009	.00004	.00020	-.00024

RUN NO. 2046/ 0 RN/L = 5.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
4.960	-10.000	-.19190	.02790	-.00890	.00030	.00030	.09350	.00340
4.960	-8.000	-.16440	.02730	-.00820	.00010	-.00010	.09350	.00530
4.960	-6.000	-.13580	.02300	-.00820	.00050	-.00030	.09200	.00520
4.960	-5.000	-.12030	.02040	-.00970	.00050	-.00030	.09120	.00510
4.960	-4.000	-.10320	.01850	-.01120	.00050	-.00030	.09030	.00490
4.960	-2.000	-.06870	.01460	-.01040	.00010	-.00010	.09160	.00490
4.960	.000	-.03790	.01340	-.01120	.00050	-.00070	.09160	.00420
4.960	2.000	-.00140	.01030	-.00950	.00080	-.00010	.09170	.00340
4.960	4.000	.02710	.00990	-.00360	-.00040	-.00120	.09200	.00290
4.960	5.000	.03960	.00950	-.00530	-.00050	-.00190	.09220	.00270
4.960	6.000	.05490	.00690	-.00680	.00070	-.00190	.09300	.00270
4.960	8.000	.09420	-.00490	-.01550	.00810	.00050	.09650	.00320
4.960	10.000	.14750	-.02680	-.03320	.02260	.00620	.09320	.00450
GRADIENT		.01617	-.00108	.00051	-.00009	-.00013	.00013	-.00026

MSFC 570 (IASIF) (T9) / (C3) / (S3/2) / (S3/2)

(R03T06) (21 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CAFIC = 200.000
 DELTAZ = .290 RUDDER = .000
 X-SR9 = .000 CRG1MC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2030/ 0 RNVL = 4.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.599	-10.000	-.16660	-.02390	.01030	-.00660	-.00049	.02970	.01820
.599	-8.000	-.14170	-.01920	.00640	-.00700	-.00100	.02930	.01710
.599	-6.000	-.11100	-.01790	.00570	-.00670	-.00043	.02440	.02390
.599	-5.000	-.09490	-.01720	.00640	-.00660	-.00010	.02330	.02620
.599	-4.000	-.07970	-.01550	.00690	-.00670	-.00030	.02500	.02430
.599	-2.000	-.05520	-.01100	.00250	-.00610	-.00050	.02670	.02200
.599	.000	-.03400	-.00410	.00560	-.00760	-.00090	.02730	.01910
.599	2.000	-.01140	.00400	.00320	-.00730	-.00090	.02700	.01710
.599	4.000	.00940	.01200	.00420	-.00660	-.00060	.02940	.01370
.599	5.000	.01790	.01640	.00490	-.00640	-.00050	.02980	.01130
.599	6.000	.02340	.02220	.00290	-.00570	-.00070	.02950	.00970
.599	8.000	.04240	.03230	.00250	-.00430	-.00060	.02770	.00320
.599	10.000	.07240	.03980	.00430	-.00260	-.00030	.02960	-.00190
GRADIENT	.01119	.00342	.00342	-.00019	-.00001	-.00004	.00054	-.00145

RUN NO. 2029/ 0 RNVL = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
.800	-10.000	-.17470	-.02470	.00000	-.00130	-.00070	.02950	.03090
.800	-8.000	-.15080	-.01770	-.00090	-.00210	-.00240	.03250	.02620
.800	-6.000	-.11930	-.01260	.00000	-.00260	-.00010	.03390	.02350
.800	-5.000	-.10570	-.00980	-.00110	-.00240	-.00020	.03330	.02310
.800	-4.000	-.09640	-.00600	-.00440	-.00160	-.00040	.03140	.02330
.800	-2.000	-.07070	-.00190	-.00410	-.00250	-.00070	.03010	.02560
.800	.000	-.04660	.00320	-.00390	-.00110	-.00070	.02990	.02150
.800	2.000	-.02860	.01410	-.00490	-.00030	-.00060	.02910	.01590
.800	4.000	.00810	.02110	-.00160	-.00330	-.00130	.03180	.01370
.800	5.000	.01950	.02110	.00060	-.00440	-.00140	.03290	.01190
.800	6.000	.01950	.02500	.00090	-.00350	-.00060	.03270	.00990
.800	8.000	.04430	.03150	.00040	-.00240	-.00010	.03030	.00770
.800	10.000	.07420	.03550	-.00100	-.00270	-.00130	.02580	.00770
GRADIENT	.01131	.00319	.00319	.00020	-.00015	-.00012	-.00003	-.00124



MSFC 570 (1A31F) (T9) / (O3) / (S3/2) / (S3/2)

(R03T06) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 200.000
 DELTAZ = .280 RUDDER = .000
 X-SR9 = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2028/ 0 RN/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.18990	-.02070	-.00390	.00190	-.00030	.02820	.04290
.901	-8.000	-.16030	-.01900	-.00700	.00170	-.00040	.03070	.03940
.901	-6.000	-.13570	-.00670	-.00890	.00220	-.00050	.03300	.03420
.901	-5.000	-.12300	-.00270	-.00960	.00210	-.00040	.03320	.03260
.901	-4.000	-.10920	.00030	-.00700	.00150	-.00020	.03230	.03240
.901	-2.000	-.08250	.00360	-.00660	.00070	-.00020	.03350	.02950
.901	.000	-.05760	.01220	-.00680	.00090	-.00020	.03180	.02740
.901	2.000	-.03110	.01550	-.00740	.00100	-.00050	.03270	.02300
.901	4.000	-.00410	.01910	-.00640	.00100	-.00010	.03390	.02040
.901	5.000	.00980	.02160	-.00580	.00110	.00010	.03350	.02010
.901	6.000	.02100	.02410	-.00670	.00120	-.00010	.03240	.01940
.901	8.000	.04870	.02910	-.00650	.00120	-.00020	.03030	.01970
.901	10.000	.08120	.03420	-.00220	.00100	.00010	.02920	.01710
GRADIENT	.01314	.00241	.00016	.00016	-.00007	.00003	.00007	-.00137

RUN NO. 2026/ 0 RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-.20530	-.01920	.00120	.00060	-.00060	.06690	.03630
1.051	-8.000	-.17180	-.01250	.00000	.00050	-.00050	.06740	.03210
1.051	-6.000	-.13880	-.00500	.00050	.00030	-.00100	.07000	.02990
1.051	-5.000	-.12290	-.00190	.00030	.00070	-.00080	.07010	.02770
1.051	-4.000	-.10770	.00050	-.00240	.00150	-.00020	.06990	.02690
1.051	-2.000	-.07810	.00610	-.00430	.00210	.00000	.06950	.02250
1.051	.000	-.05310	.01360	-.00570	.00250	-.00050	.07010	.01630
1.051	2.000	-.02620	.01570	-.00450	.00140	-.00030	.07010	.01300
1.051	4.000	.00350	.01870	-.00090	.00000	.00000	.06720	.01330
1.051	5.000	.01800	.02130	.00050	-.00030	.00000	.06520	.01350
1.051	6.000	.03060	.02390	.00050	-.00020	.00000	.06340	.01290
1.051	8.000	.05870	.02850	.00100	.00000	.00000	.06190	.01070
1.051	10.000	.09250	.03210	.00330	-.00040	-.00020	.06140	.00730
GRADIENT	.01392	.00231	.00011	.00011	-.00014	.00005	-.00005	-.00160

MSFC 570 (1A31F) (T9)/(G3)/(S3/2)/(S3/2)

(R53T06) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIC = 200.000
DELTAZ = .240 RUDDER = .000
X-SPB = .000 UPDINC = 1.500
SPACER = .000 SPACIA = .000
SPACAP = .000

RUN NO. 2027/ 0 RIVL = 6.70 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.21790	-.02180	-.00190	-.00180	-.00050	.05160	.04510
1.250	-9.000	-.17920	-.01790	-.00090	-.00220	-.00090	.04360	.03910
1.250	-8.000	-.14110	-.01300	-.00050	-.00230	-.00050	.04310	.03590
1.250	-7.000	-.12430	-.00930	-.00140	-.00200	-.00040	.04320	.03460
1.250	-6.000	-.10940	-.00470	-.00320	-.00140	-.00050	.04310	.03340
1.250	-5.000	-.09290	.00370	-.00560	-.00040	-.00050	.04310	.03390
1.250	-4.000	-.08660	.01830	-.00330	-.00040	-.00050	.04320	.02770
1.250	-3.000	-.03640	.02620	-.00550	-.00020	-.00050	.04360	.02350
1.250	-2.000	-.01050	.03310	-.00460	-.00050	-.00050	.04360	.02350
1.250	-1.000	.00240	.03750	-.00350	-.00080	-.00030	.04470	.02400
1.250	0.000	.01520	.04280	-.00190	-.00120	.00050	.04330	.02350
1.250	1.000	.04200	.05190	-.00100	-.00120	.00090	.04050	.02290
1.250	2.000	.07140	.04930	-.00560	-.00210	-.00210	.07610	.02270
1.250	3.000	.01247	.00474	-.00016	.00011	.00001	-.00009	-.00121

RUN NO. 2031/ 0 RIVL = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.455	-10.000	-.22540	-.01520	-.00310	.00000	-.00100	.09330	.03960
1.455	-9.000	-.17780	-.01960	-.00370	.00100	-.00090	.09640	.03570
1.455	-8.000	-.13490	-.01900	-.00540	.00160	-.00090	.09700	.03210
1.455	-7.000	-.11500	-.01740	-.00640	.00160	-.00070	.09580	.03050
1.455	-6.000	-.09660	-.01320	-.00650	.00140	-.00030	.09510	.02920
1.455	-5.000	-.06190	-.00960	-.00650	.00090	-.00050	.09720	.02440
1.455	-4.000	-.03690	.00230	-.00770	.00110	-.00030	.09790	.01950
1.455	-3.000	-.02030	.01640	-.00900	.00200	-.00030	.09770	.01550
1.455	-2.000	-.00450	.03250	-.00710	.00100	-.00050	.09560	.01500
1.455	-1.000	.00490	.03990	-.00570	.00030	-.00050	.09520	.01490
1.455	0.000	.01340	.04570	-.00590	.00040	-.00040	.09630	.01410
1.455	1.000	.04390	.05530	-.00490	.00060	-.00040	.09570	.01350
1.455	2.000	.09390	.05710	-.00050	.00000	-.00050	.09300	.01530
1.455	3.000	.01167	.00596	-.00004	-.00007	-.00000	.00001	-.00170

MSFC 370 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R03T06) (21 SEP 73)

REFERENCE DATA

SREF = 0.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 200.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CFBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2042/ 0 RN/L = 7.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.966	-10.000	-2.7090	.02370	.00250	-.00340	-.00070	.09930	.02900
1.966	-8.000	-2.1690	.01700	.00200	-.00370	-.00040	.09730	.02510
1.966	-6.000	-1.6580	.01200	.00090	-.00310	-.00040	.09710	.02390
1.966	-5.000	-1.1420	.01030	.00020	-.00280	-.00040	.09690	.02330
1.966	-4.000	-.1210	.01000	-.00060	-.00230	-.00040	.09660	.02230
1.966	-2.000	-.08080	.01020	-.00290	-.00200	-.00040	.09720	.02000
1.966	.000	-.04760	.01430	-.00430	-.00100	-.00030	.10090	.01560
1.966	2.000	-.01540	.02030	-.00320	-.00090	-.00030	.10240	.01190
1.966	4.000	.01560	.02690	-.00250	-.00090	-.00030	.10270	.00990
1.966	5.000	.03200	.02930	-.00300	-.00070	-.00020	.10290	.00710
1.966	6.000	.03140	.03060	-.00260	-.00090	-.00030	.10270	.00490
1.966	8.000	.09420	.03110	-.00140	-.00150	-.00040	.10160	.00190
1.966	10.000	.14020	.03040	-.00040	-.00180	-.00010	.09930	.00120
GRADIENT		.01723	.00203	-.00028	.00022	.00001	.00071	-.00169

RUN NO. 2043/ 0 RN/L = 4.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-2.6290	.04120	.00000	-.00210	-.00090	.09950	.01560
2.990	-8.000	-2.2030	.03410	-.00320	-.00140	-.00140	.09930	.01390
2.990	-6.000	-1.7500	.02720	-.00270	-.00160	-.00090	.09940	.01250
2.990	-5.000	-1.3260	.02410	-.00250	-.00160	-.00070	.09940	.01200
2.990	-4.000	-.13400	.02220	-.00490	-.00100	-.00090	.09990	.01200
2.990	-2.000	-.09260	.01760	-.00690	-.00060	-.00090	.09960	.01220
2.990	.000	-.03350	.01460	-.00690	-.00030	-.00070	.09940	.01100
2.990	2.000	-.01460	.01260	-.00660	.00060	-.00070	.09920	.00950
2.990	4.000	.02490	.01000	-.00540	.00000	-.00090	.09980	.00790
2.990	5.000	.04510	.00850	-.00450	-.00020	-.00090	.09130	.00670
2.990	6.000	.06590	.00650	-.00380	-.00040	-.00110	.09200	.00490
2.990	8.000	.10940	.00330	-.00320	-.00070	-.00160	.09320	-.00020
2.990	10.000	.15400	-.00010	-.00300	-.00090	-.00190	.09430	-.00910
GRADIENT		.01979	-.00132	-.00013	.00013	-.00000	.00021	-.00034

MSC 370 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

083706 (21 SEP 73)

REFERENCE DATA

SREF = 0.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COARFIC = 200.000
 DELTAZ = .250 RUDDER = .000
 X-SFB = .000 SPDRHC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2044/ 0 RM/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	C	CYN	CBL	CAF	CAS
3.480	-10.000	-26350	.04530	-.00260	-.00140	-.00090	.09430	.01290
3.480	-8.000	-.21930	.03750	-.00230	-.00140	-.00070	.09430	.01290
3.480	-6.000	-.17450	.03050	-.00290	-.00170	-.00090	.09430	.01090
3.480	-5.000	-.15300	.02740	-.00350	-.00160	-.00090	.09430	.01090
3.480	-4.000	-.13290	.02480	-.00440	-.00120	-.00030	.09430	.01030
3.480	-2.000	-.09400	.02020	-.00590	-.00090	-.00070	.09430	.01060
3.480	.000	-.05570	.01700	-.00640	-.00010	-.00030	.09430	.01030
3.480	2.000	-.01720	.01450	-.00530	-.00010	-.00090	.09430	.00970
3.480	4.000	.02090	.01190	-.00320	-.00090	-.00120	.09430	.00940
3.480	5.000	.04010	.01040	-.00230	-.00120	-.00110	.09430	.00720
3.480	6.000	.05950	.00920	-.00250	-.00100	-.00160	.09430	.00540
3.480	8.000	.10120	.00420	-.00320	-.00110	-.00160	.09430	.00290
3.480	10.000	.14730	-.00610	-.00390	-.00230	-.00030	.09430	.00150
GRADIENT	.01927	-.00164	.00013	.00013	.00005	-.00005	.00023	-.00029

RUN NO. 2045/ 0 RM/L = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	C	CYN	CBL	CAF	CAS
4.960	-10.000	-.19900	.03450	-.00970	-.00010	.00000	.09190	.00540
4.960	-8.000	-.17000	.02980	-.00990	.00040	-.00120	.09190	.00510
4.960	-6.000	-.13930	.02650	-.00990	.00110	-.00070	.09110	.00490
4.960	-5.000	-.12370	.02490	-.01000	.00100	-.00030	.09100	.00480
4.960	-4.000	-.10850	.02310	-.01120	.00080	-.00030	.09110	.00490
4.960	-2.000	-.07590	.01940	-.00910	.00000	-.00010	.09210	.00470
4.960	.000	-.04450	.01590	-.01070	.00040	-.00070	.09390	.00400
4.960	2.000	-.00720	.01390	-.00900	.00090	-.00030	.09320	.00300
4.960	4.000	.02770	.01100	-.00170	-.00170	-.00050	.09390	.00230
4.960	5.000	.04350	.00990	.00020	-.00260	-.00070	.09450	.00210
4.960	6.000	.06020	.00670	-.00050	-.00220	-.00060	.09510	.00210
4.960	8.000	.09510	.00290	-.00940	.00130	.00090	.09570	.00230
4.960	10.000	.12930	.00270	-.02720	.00710	.00430	.09440	.00290
GRADIENT	.01687	-.00155	.00099	.00026	-.00004	-.00004	.00034	-.00033



MSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R03T07) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRGINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2103/ 0 RN/L = 4.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.602	-10.000	.01310	-.03090	.10760	-.00150	-.00090	.02300	.03010
.602	-8.000	-.00340	-.02330	.09610	-.00050	-.00160	.02490	.02950
.602	-6.000	-.01020	-.01900	.06310	.00030	-.00070	.02740	.02770
.602	-4.000	-.01970	-.01400	.04730	-.00220	.00000	.02910	.02640
.602	-2.000	-.02860	-.01040	.02240	-.00260	-.00050	.02730	.02740
.602	.000	-.03000	-.00990	.00740	-.00610	.00000	.02460	.02660
.602	2.000	-.02910	-.00900	-.01020	-.00970	-.00070	.02650	.02690
.602	4.000	-.02800	-.01000	-.03040	-.01150	-.00010	.02740	.02690
.602	6.000	-.02170	-.01430	-.04830	-.01460	-.00110	.02710	.02640
.602	8.000	-.01510	-.01510	-.06730	-.01550	-.00110	.02440	.03070
.602	10.000	-.00280	-.02090	-.09170	-.01480	.00000	.02320	.03230
GRADIENT		-.00095	.00032	-.00940	-.00129	-.00002	-.00011	-.00002

RUN NO. 2104/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.799	-10.000	-.01110	-.01480	.12590	-.00860	-.00010	.02450	.03790
.799	-8.000	-.02330	-.01090	.09530	-.00670	-.00040	.02320	.03700
.799	-6.000	-.03090	-.00610	.07020	-.00390	-.00040	.02900	.03350
.799	-4.000	-.03660	-.00220	.04690	-.00270	-.00020	.03720	.02270
.799	-2.000	-.04620	.00300	.02190	-.00090	.00000	.03230	.02130
.799	.000	-.04720	.00440	.00200	-.00260	-.00050	.03170	.02210
.799	2.000	-.04560	.00370	-.01600	-.00340	-.00020	.02970	.03020
.799	4.000	-.04230	.00100	-.03900	-.00660	-.00050	.02990	.02940
.799	6.000	-.04000	-.00090	-.06160	-.00510	-.00100	.02990	.02940
.799	8.000	-.03440	-.00290	-.08700	-.00340	-.00020	.02750	.03390
.799	10.000	-.02840	-.00550	-.11490	-.00070	.00000	.02440	.03990
GRADIENT		-.00054	.00035	-.01047	-.00061	-.00004	-.00101	.00112

MSFC 570 (IASIF) (T9) / (03) / (S3/2) / (S3/2)

(R43707) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COARFIC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRIBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2103/ 0 RIVL = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.895	-10.000	-.03210	-.00440	.13300	-.00790	-.00040	.02440	.04390
.895	-8.000	-.03670	-.00100	.10350	-.00390	-.00020	.02750	.04110
.895	-6.000	-.04080	.00090	.07690	-.00390	-.00310	.03000	.03740
.895	-4.000	-.05240	.00700	.04610	-.00210	-.00050	.03270	.03120
.895	-2.000	-.05900	.00920	.02490	-.00140	-.00020	.03350	.02930
.895	.000	-.05770	.00990	.00230	-.00070	-.00000	.03120	.03130
.895	2.000	-.05470	.00910	-.02690	.00220	-.00010	.03060	.03210
.895	4.000	-.05470	.00930	-.04530	.00120	-.00040	.03260	.03120
.895	6.000	-.05140	.00530	-.07610	.00330	-.00030	.03500	.03590
.895	8.000	-.04090	.00050	-.10220	.00590	-.00020	.02510	.04150
.895	10.000	-.03250	-.00390	-.13510	.00940	-.00040	.02300	.04590
GRADIENT	-.00007	.00012	.00012	-.01199	.00051	-.00002	-.00014	.00014

RUN NO. 2102/ 0 RIVL = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.045	-10.000	-.02080	-.00830	.14940	-.01510	-.00020	.05690	.03500
1.045	-8.000	-.02690	-.00490	.11060	-.00950	-.00020	.05930	.03130
1.045	-6.000	-.03470	.00010	.08010	-.00690	-.00030	.06390	.02940
1.045	-4.000	-.03930	.00300	.05160	-.00390	-.00020	.06720	.02350
1.045	-2.000	-.04500	.00660	.02120	.00020	-.00010	.06820	.02200
1.045	.000	-.04520	.00630	-.00460	.00210	-.00050	.06530	.02130
1.045	2.000	-.04500	.00560	-.02960	.00330	-.00030	.06160	.02250
1.045	4.000	-.04230	.00430	-.05500	.00340	-.00030	.06420	.02570
1.045	6.000	-.03730	.00140	-.08390	.00820	-.00030	.06060	.03040
1.045	8.000	-.02820	-.00420	-.11920	.01270	-.00040	.05950	.03110
1.045	10.000	-.02590	-.00670	-.15950	.01990	-.00050	.05970	.03390
GRADIENT	-.00040	.00004	.00004	-.01315	.00109	-.00002	-.00039	.00025



MSFC 370 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R03T07) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 200,000
 DELTAZ = .140 RUDDER = .000
 X-SR9 = .000 CRSTHC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2101/ 1 RVL = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.03180	-.00490	.17170	-.02090	-.00040	.07720	.04910
1.246	-8.000	-.03090	-.00400	.12930	-.01350	-.00040	.07930	.04430
1.246	-6.000	-.03600	-.00040	.09020	-.00710	-.00060	.09030	.04070
1.246	-4.000	-.06330	.00440	.03690	-.00320	-.00110	.09210	.03740
1.246	-2.000	-.06670	.00700	.02960	-.00130	-.00120	.09190	.03630
1.246	.000	-.06590	.00960	.00360	-.00030	-.00070	.09220	.03570
1.246	2.000	-.06760	.00890	-.02410	.00110	-.00060	.09230	.03590
1.246	4.000	-.06480	.00720	-.03490	.00430	-.00060	.09190	.03730
1.246	6.000	-.05680	.00200	-.09110	.00930	-.00090	.07970	.04220
1.246	8.000	-.03180	-.00170	-.12290	.01310	-.00030	.07690	.04690
1.246	10.000	-.03150	-.00220	-.16670	.02100	-.00060	.07530	.05990
GRADIENT		-.00019	.00037	-.01380	.00097	.00009	.00001	-.00003

RUN NO. 2100/ 0 RVL = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	-.02680	-.00730	.17930	-.02740	-.00040	.09010	.03440
1.465	-8.000	-.02320	-.01010	.12900	-.01590	-.00060	.09000	.03260
1.465	-6.000	-.03100	-.00660	.09720	-.00760	-.00090	.09010	.02970
1.465	-4.000	-.03430	-.00280	.05370	-.00310	-.00030	.09150	.02720
1.465	-2.000	-.03600	.00000	.02670	-.00140	-.00020	.09460	.02490
1.465	.000	-.03730	.00070	.00120	-.00100	-.00030	.09420	.02330
1.465	2.000	-.03690	.00090	-.02820	.00000	-.00070	.09420	.02310
1.465	4.000	-.03780	.00090	-.05970	.00230	-.00040	.09400	.02400
1.465	6.000	-.02080	-.00630	-.09280	.00740	-.00040	.09370	.02930
1.465	8.000	-.03190	-.00330	-.13530	.01660	-.00040	.09230	.03190
1.465	10.000	-.03560	-.00410	-.18270	.02660	-.00120	.09020	.03490
GRADIENT		-.00039	.00040	-.01399	.00063	.00002	.00003	.00009

MSFC 570(1A31F)(T9)/(G3)/(S3/2)/(S3/2)

(283707) (14 SEP 73)

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COEFFIC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CPDING = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2142/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.983	-10.000	-.03240	.01170	.16170	-.02710	-.00030	.09480	.02390
1.983	-8.000	-.04490	.00800	.13400	-.01630	-.00040	.09300	.02190
1.983	-6.000	-.04130	.00630	.09360	-.00830	-.00040	.09630	.01980
1.983	-4.000	-.04290	.00800	.03910	-.00310	-.00030	.09350	.01910
1.983	-2.000	-.04620	.00990	.02820	-.00060	-.00060	.09510	.01900
1.983	.000	-.04970	.01190	-.00230	.00110	-.00090	.09650	.01990
1.983	2.000	-.04660	.00950	-.02970	.00190	-.00030	.09450	.01910
1.983	4.000	-.05020	.03420	-.06290	.00320	-.00060	.10090	.01860
1.983	6.000	-.04990	.03790	-.10100	.01200	-.00060	.09920	.01990
1.983	8.000	-.05360	.00450	-.14170	.02030	-.00060	.10030	.01950
1.983	10.000	-.06480	.01600	-.19390	.03240	-.00070	.09910	.02240
GRADIENT		-.00075	-.00040	-.01509	.00095	.00001	.00071	-.00209

RUN NO. 2081/ 0 RN/L = 4.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	-.06480	.02020	.16120	-.01520	-.00100	.09720	.01660
2.990	-8.000	-.05670	.01490	.12230	-.00950	-.00070	.09910	.01590
2.990	-6.000	-.04930	.00970	.08730	-.00430	-.00070	.09940	.01530
2.990	-4.000	-.04770	.00900	.05670	-.00230	-.00070	.09960	.01430
2.990	-2.000	-.05110	.00900	.02990	-.00120	-.00090	.09920	.01330
2.990	.000	-.05020	.00930	.00290	-.00030	-.00030	.09930	.01360
2.990	2.000	-.05030	.00980	-.02490	.00100	-.00060	.09990	.01300
2.990	4.000	-.05110	.00990	-.03260	.00240	-.00090	.09930	.01620
2.990	6.000	-.05070	.01210	-.08130	.00410	-.00040	.09040	.01700
2.990	8.000	-.05790	.01460	-.11760	.00860	-.00060	.09990	.01750
2.990	10.000	-.06970	.01990	-.15650	.01480	-.00120	.09030	.01760
GRADIENT		-.00031	.00017	-.01362	.00059	.00000	.00021	.00027



MSFC 570 (1A31F) (T9) / (03) / (S3/2) / (S3/2)

(R03T07) (14 SEP 73)

REFERENCE DATA

SREF = 5.190 50. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CGNFIG = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2062/ 0 RV/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.06020	.01950	.15520	-.01140	-.00050	.09800	.01210
3.480	-8.000	-.05480	.01490	.11730	-.00370	-.00070	.09760	.01170
3.480	-6.000	-.05010	.01120	.08360	-.00200	-.00050	.09760	.01150
3.480	-4.000	-.04710	.01030	.05690	-.00100	-.00040	.09910	.01150
3.480	-2.000	-.04890	.01100	.03100	-.00090	-.00060	.09950	.01110
3.480	.000	-.05090	.01050	.00380	-.00060	-.00040	.09830	.01120
3.480	2.000	-.05090	.01050	-.02390	.00090	-.00030	.09910	.01200
3.480	4.000	-.05040	.01150	-.05020	.00050	-.00050	.09910	.01260
3.480	6.000	-.05160	.01310	-.07740	.00070	-.00070	.09960	.01310
3.480	8.000	-.05680	.01570	-.10970	.00460	-.00040	.09960	.01350
3.480	10.000	-.06200	.02000	-.14610	.00970	-.00120	.09020	.01340
GRADIENT		-.00043	.00010	-.01341	.00019	-.00003	-.00002	.00015

RUN NO. 2063/ 0 RV/L = 4.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-10.000	-.05630	.01790	.13290	-.00370	-.00040	.09640	.00510
4.960	-8.000	-.04990	.01500	.10320	-.00190	-.00060	.09690	.00540
4.960	-6.000	-.04720	.01340	.07520	.00070	-.00030	.09570	.00540
4.960	-4.000	-.04620	.01150	.05030	.00070	.00000	.09570	.00560
4.960	-2.000	-.04970	.01230	.02490	.00110	.00010	.09540	.00590
4.960	.000	-.05440	.01460	.00230	-.00010	-.00050	.09390	.00610
4.960	2.000	-.05180	.01390	-.01820	-.00190	-.00110	.09340	.00690
4.960	4.000	-.05050	.01300	-.04160	-.00260	-.00010	.09470	.00690
4.960	6.000	-.05420	.01320	-.06910	-.00290	-.00130	.09570	.00590
4.960	8.000	-.05660	.01420	-.09670	.00000	-.00230	.09690	.00570
4.960	10.000	-.06330	.01670	-.12420	.00090	-.00130	.09690	.00590
GRADIENT		-.00034	.00023	-.01134	-.00046	-.00007	-.00020	.00004

MSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R83709) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

ALPHA = 5.000 COAFTC = 200.000
DELTA Z = .140 RUDDER = .000
X-SRB = .000 ORBINC = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2106/ 1 RVL = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.04270	.00260	.15760	-.01430	-.00040	.01660	.04490
.900	-8.000	.04050	.00270	.11970	-.01070	.00010	.02000	.04140
.900	-6.000	.03380	.00330	.09400	-.00770	-.00020	.02550	.03670
.900	-4.000	.02980	.00730	.04980	-.00450	-.00030	.02440	.03170
.900	-2.000	.02020	.01030	.01480	.00140	-.00050	.03320	.02710
.900	.000	.02660	.00720	-.01370	.00370	-.00070	.03400	.02650
.900	2.000	.03060	.00880	-.03900	.00450	-.00050	.03320	.02740
.900	4.000	.03930	.00330	-.06970	.00610	-.00100	.03240	.02790
.900	6.000	.05130	-.00140	-.10370	.01170	-.00140	.02450	.03910
.900	8.000	.06470	-.00070	-.13390	.01480	-.00030	.02250	.04270
.900	10.000	.06650	-.00150	-.17360	.02070	-.00040	.01970	.04650
GRADIENT		.00177	-.00047	-.01464	.00121	-.00007	.00046	-.00035

RUN NO. 2107/ 0 RVL = 5.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.053	-10.000	.05260	.00140	.19090	-.02300	-.00070	.03500	.03140
1.053	-8.000	.05620	-.00080	.13920	-.01690	-.00050	.03730	.02930
1.053	-6.000	.05270	.00000	.10110	-.01240	-.00030	.03740	.02970
1.053	-4.000	.04340	.00350	.06470	-.00760	-.00030	.05390	.02190
1.053	-2.000	.03740	.00700	.03230	-.00360	-.00010	.05660	.01760
1.053	.000	.03470	.00940	.00100	-.00080	-.00020	.05330	.01720
1.053	2.000	.03060	.00980	-.03430	.00260	-.00070	.06300	.01770
1.053	4.000	.03610	.00480	-.06980	.00790	-.00010	.06230	.02190
1.053	6.000	.04740	.00050	-.10130	.01280	.00030	.05930	.02720
1.053	8.000	.05260	-.00190	-.13990	.01760	-.00040	.05490	.02370
1.053	10.000	.06100	-.00250	-.18370	.02550	-.00070	.05950	.02550
GRADIENT		-.00107	.00022	-.01666	.00186	-.00001	-.00033	.00000



DATE 03 NOV 74

TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T9) / (S3) / (S3/2) / (S3/2)

(R83T08) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CGAF16 = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2108/ 0 RNVL = 6.74 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	.06350	.00670	.20390	-.03190	-.00020	.07300	.04860
1.248	-8.000	.05090	.00600	.14990	-.02030	-.00090	.07650	.04490
1.248	-6.000	.04060	.01010	.10750	-.01250	.00000	.07620	.04320
1.248	-4.000	.02660	.01810	.06750	-.00640	.00010	.07800	.04000
1.248	-2.000	.01970	.02180	.03270	-.00340	-.00090	.08100	.03610
1.248	.000	.02060	.02310	.00270	-.00130	-.00090	.07930	.03990
1.248	2.000	.01720	.02490	-.03110	.00150	.00000	.07870	.04200
1.248	4.000	.02200	.02100	-.06660	.00360	.00000	.08050	.04140
1.248	6.000	.03980	.01430	-.10160	.01200	-.00070	.07890	.04400
1.248	8.000	.03080	.01120	-.14550	.02120	-.00090	.07510	.04930
1.248	10.000	.05770	.00830	-.20420	.03340	-.00120	.07220	.05550
GRADIENT	-.00059	.00045	-.01660	.00144	.00094	.00004	.00014	.00043

RUN NO. 2099/ 0 RNVL = 6.35 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.464	-10.000	.05290	.01180	.21310	-.03650	-.00030	.09910	.03250
1.464	-8.000	.04780	.01280	.15920	-.02390	-.00010	.08980	.02900
1.464	-6.000	.03920	.01790	.11050	-.01230	-.00040	.09940	.02630
1.464	-4.000	.02340	.02640	.06930	-.00610	-.00070	.08260	.02110
1.464	-2.000	.01920	.03200	.03400	-.00150	.00000	.08390	.02180
1.464	.000	.01410	.03170	.00030	.00010	-.00080	.08210	.02440
1.464	2.000	.01470	.03100	-.03390	.00370	.00000	.08410	.02490
1.464	4.000	.02640	.02620	-.07300	.00800	-.00150	.09400	.02570
1.464	6.000	.03120	.02020	-.11670	.01620	-.00070	.09410	.02660
1.464	8.000	.03940	.01920	-.16490	.02850	-.00030	.09390	.03040
1.464	10.000	.03920	.02160	-.22420	.04570	-.00060	.09320	.03290
GRADIENT	.00007	-.00007	-.01762	.00167	-.00009	-.00009	.00015	.00062

MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R83T08) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN. XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COEF10 = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 OFBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2063/ 0 RIVL = 4.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.03300	.01110	.16480	-.01910	.00020	.09910	.01390
2.990	-8.000	.04350	.00370	.12830	-.01370	-.00020	.09900	.01310
2.990	-6.000	.04900	.00330	.09060	-.00780	-.00040	.09970	.01260
2.990	-4.000	.04520	.00300	.05610	-.00300	-.00040	.09990	.01230
2.990	-2.000	.04350	.00490	.02760	-.00110	-.00100	.09920	.01220
2.990	.000	.04390	.00540	.00390	-.00140	-.00050	.09910	.01190
2.990	2.000	.04510	.00510	-.02260	-.00100	-.00040	.09900	.01120
2.990	4.000	.04820	.00360	-.05310	-.00190	-.00130	.09940	.01160
2.990	6.000	.05100	.00340	-.09310	.00670	-.00110	.09940	.01300
2.990	8.000	.04950	.00310	-.12170	.01270	-.00030	.09100	.01440
2.990	10.000	.04150	.01100	-.16260	.01980	-.00100	.09150	.01550
	GRADIENT	.00039	.00027	-.01343	.00049	-.00002	.00015	-.00012

RUN NO. 2064/ 0 RIVL = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.03860	.00950	.15910	-.01440	-.00030	.09790	.01120
3.480	-8.000	.04510	.00350	.12190	-.00990	-.00020	.09740	.01010
3.480	-6.000	.05170	.00190	.09710	-.00440	-.00050	.09740	.00950
3.480	-4.000	.05080	.00130	.05520	-.00120	-.00040	.09730	.00940
3.480	-2.000	.04770	.00200	.02920	.00000	-.00040	.09770	.00930
3.480	.000	.04720	.00260	.00420	-.00040	-.00030	.09740	.00930
3.480	2.000	.04690	.00370	-.01920	-.00170	-.00040	.09790	.00950
3.480	4.000	.04840	.00340	-.04500	-.00090	-.00050	.09790	.00940
3.480	6.000	.05120	.00220	-.07590	.00210	-.00070	.09910	.01030
3.480	8.000	.04870	.00400	-.11110	.00670	-.00100	.09970	.01090
3.480	10.000	.03710	.01080	-.14810	.01210	-.00010	.09940	.01170
	GRADIENT	-.00029	.00029	-.01239	-.00005	-.00001	.00007	.00005



MSFC 370 (1A31F) (T9) / (03) / (S3/2) / (S3/2)

(R93T09) (21 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN. XMRP = 2.5490 IN.
 LRFP = 5.3130 IN. YMRP = .0000 IN.
 BRFP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CCONF = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CFBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2111/ 0 RIVL = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	.03920	.00310	.15990	-.01670	-.00110	.02140	.03990
.900	-8.000	.03320	.00360	.11620	-.00960	-.00060	.02110	.03770
.900	-6.000	.02700	.00630	.08560	-.00710	-.00060	.02330	.03510
.900	-4.000	.01810	.01060	.05490	-.00470	-.00110	.02790	.03090
.900	-2.000	.01170	.01370	.02430	-.00110	-.00090	.02990	.02750
.900	.000	.01190	.01440	-.00320	.00070	-.00110	.03130	.02570
.900	2.000	.01370	.01270	-.03060	.00190	-.00100	.03320	.02360
.900	4.000	.02260	.01030	-.05670	.00320	-.00070	.03220	.02460
.900	6.000	.02990	.00710	-.08650	.00630	-.00090	.02490	.03270
.900	8.000	.03340	.00400	-.12410	.01200	-.00090	.01920	.04100
.900	10.000	.03630	.00590	-.16290	.01940	-.00010	.01930	.04030
GRADIENT		.00065	-.00010	-.01390	.00093	.00004	.00060	-.00092

RUN NO. 2110/ 0 RIVL = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	.04210	.00430	.17760	-.02480	-.00100	.03900	.02940
1.050	-8.000	.04260	.00240	.13460	-.01670	-.00050	.03610	.02930
1.050	-6.000	.03560	.00410	.09650	-.01100	-.00030	.03640	.02790
1.050	-4.000	.02840	.00930	.06320	-.00720	-.00040	.06220	.02350
1.050	-2.000	.01960	.01220	.03010	-.00330	-.00050	.06390	.01990
1.050	.000	.01980	.01310	-.00070	-.00030	-.00040	.06590	.01650
1.050	2.000	.01960	.01190	-.03050	.00250	-.00060	.06570	.01690
1.050	4.000	.02700	.00900	-.06240	.00630	-.00090	.06210	.02150
1.050	6.000	.03330	.00490	-.09590	.01030	-.00070	.03770	.02690
1.050	8.000	.04050	.00200	-.13160	.01470	-.00090	.03590	.02900
1.050	10.000	.04090	.00260	-.17160	.02170	-.00040	.03040	.02900
GRADIENT		-.00014	.00005	-.01559	.00166	-.00004	-.00001	-.00029

WSFC 370(1431F)(19)/(03)/(03/2)/(03/2)

(03109) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COMF10 = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 JRGINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2109/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	.03590	.01330	.19420	-.03040	-.00020	.07460	.04690
1.248	-6.000	.03090	.01820	.14270	-.01900	-.00040	.07330	.04340
1.248	-6.000	.02010	.01940	.09790	-.00950	-.00040	.07700	.03910
1.248	-4.000	.00970	.02460	.06210	-.00330	-.00040	.07940	.03590
1.248	-2.000	.00200	.02930	.03230	-.00340	-.00060	.09010	.03420
1.248	.000	-.00310	.03210	-.00090	-.00350	-.00100	.07840	.03510
1.248	2.000	-.00280	.03240	-.03410	-.00240	-.00090	.07430	.03710
1.248	4.000	.00770	.02840	-.06490	.00340	-.00080	.07920	.03910
1.248	6.000	.01930	.02300	-.10090	.01000	-.00060	.07730	.04110
1.248	8.000	.02300	.01990	-.14300	.01900	-.00040	.07460	.04610
1.248	10.000	.02890	.01690	-.19630	.03220	-.00140	.07440	.04790
GRADIENT		-.00034	.00053	-.01603	.00136	-.00004	-.00011	.00035

RUN NO. 2098/ 0 RN/L = 5.41 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	.04270	.01790	.20640	-.03390	.00010	.09670	.03160
1.467	-6.000	.03040	.02230	.13310	-.02330	-.00010	.09760	.02960
1.467	-6.000	.01480	.02950	.10610	-.01230	-.00030	.09040	.02370
1.467	-4.000	.01100	.03360	.06900	-.00780	-.00060	.09360	.02000
1.467	-2.000	.00400	.03750	.03610	-.00410	-.00050	.09470	.01930
1.467	.000	.00030	.04090	.00340	-.00130	.00000	.09220	.02100
1.467	2.000	.00340	.03980	-.03000	.00180	-.00050	.09430	.02190
1.467	4.000	.00710	.03770	-.06720	.00720	-.00010	.09620	.02310
1.467	6.000	.02110	.03090	-.10780	.01470	-.00190	.09730	.02350
1.467	8.000	.02130	.02990	-.15390	.02600	-.00000	.09470	.03060
1.467	10.000	.01930	.03250	-.21590	.04330	-.00010	.09250	.03250
GRADIENT		-.00042	.00032	-.01692	.00179	.00005	.00024	.00063



WSFC 370 (1A31F) (T9) / (S3/2) / (S3/2)

(R83109) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SR9 = .000 CR3INC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2066/ 0 RVL = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.02970	.01590	.16780	-.02170	-.00030	.09920	.01360
2.990	-8.000	.03630	.01020	.12930	-.01310	-.00130	.09860	.01260
2.990	-6.000	.04230	.00710	.09370	-.00930	-.00090	.09910	.01190
2.990	-4.000	.04440	.00610	.05740	-.00390	-.00030	.09860	.01170
2.990	-2.000	.04110	.00750	.02840	-.00130	-.00060	.09990	.01130
2.990	.000	.03970	.00910	.00480	-.00180	-.00110	.09040	.01090
2.990	2.000	.03960	.00990	-.02120	-.00120	-.00070	.09070	.01070
2.990	4.000	.04080	.00790	-.03260	-.00230	-.00030	.09070	.01110
2.990	6.000	.04230	.00670	-.08730	-.00730	-.00030	.09220	.01240
2.990	8.000	.03770	.01010	-.12430	.01320	-.00020	.09000	.01390
2.990	10.000	.03060	.01540	-.16530	.02070	-.00230	.09230	.01540
	GRADIENT	-.00048	.00030	-.01348	.00061	.00002	.00015	-.00009

RUN NO. 2067/ 0 RVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.03320	.01310	.15710	-.01490	-.00030	.09760	.01040
3.480	-8.000	.04020	.00860	.12100	-.00990	-.00070	.09690	.00940
3.480	-6.000	.04470	.00590	.09790	-.00560	-.00140	.09790	.00910
3.480	-4.000	.04310	.00510	.05330	-.00140	-.00120	.09900	.00900
3.480	-2.000	.04280	.00570	.02630	.00000	-.00030	.09730	.00810
3.480	.000	.04400	.00560	.00470	-.00140	-.00040	.09750	.00830
3.480	2.000	.04290	.00590	-.01850	-.00240	-.00070	.09820	.00890
3.480	4.000	.04310	.00630	-.04660	-.00040	-.00060	.09970	.00930
3.480	6.000	.04390	.00640	-.07900	.00310	-.00060	.09960	.00960
3.490	8.000	.04130	.00990	-.11100	.00630	-.00040	.09900	.01010
3.480	10.000	.03520	.01340	-.14940	.00950	-.00040	.09990	.01120
	GRADIENT	.00001	.00013	-.01223	-.00002	.00004	.00012	.00017

MSFC 570(1A31F)(T9)/(G3)/(S3/2)/(S3/2)

(R03110) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBING = 1.000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2112/ 0 RM/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	.02940	.00800	.16330	-.01730	-.00100	.02220	.03730
.898	-8.000	.02610	.00750	.12290	-.00990	-.00140	.01960	.03660
.898	-6.000	.02130	.01040	.09090	-.00590	-.00090	.02310	.03330
.898	-4.000	.01240	.01560	.06250	-.00370	-.00110	.02660	.03030
.898	-2.000	.00290	.01940	.03300	-.00280	-.00110	.02710	.02830
.898	.000	.00230	.02000	.00470	-.00200	-.00100	.02940	.02630
.898	2.000	.00610	.01840	-.02160	.00120	-.00100	.03270	.02250
.898	4.000	.01090	.01610	-.04660	.00190	-.00090	.03290	.02200
.898	6.000	.01710	.01310	-.07630	.00310	-.00090	.02610	.02930
.898	8.000	.02160	.01070	-.11260	.01100	-.00090	.01960	.03790
.898	10.000	.02460	.01100	-.14560	.01490	-.00070	.02040	.03560
GRADIENT	.00001	.00000	-.00000	-.01365	.00096	.00004	.00091	-.00112

RUN NO. 2113/ 0 RM/L = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	.03640	.00840	.17360	-.02460	-.00070	.05920	.02890
1.049	-8.000	.03690	.00690	.13130	-.01710	-.00030	.05630	.02690
1.049	-6.000	.02990	.00940	.09460	-.01120	-.00020	.05690	.02500
1.049	-4.000	.02290	.01350	.06180	-.00710	-.00040	.06110	.02290
1.049	-2.000	.01260	.01760	.02960	-.00290	-.00060	.06310	.01930
1.049	.000	.00890	.01820	-.00230	.00030	-.00030	.06620	.01590
1.049	2.000	.01550	.01670	-.03210	.00400	-.00040	.06460	.01670
1.049	4.000	.02420	.01410	-.06310	.00900	-.00060	.06150	.02040
1.049	6.000	.03100	.00990	-.09700	.01200	-.00090	.05920	.02430
1.049	8.000	.03610	.00560	-.13340	.01700	-.00090	.05720	.02560
1.049	10.000	.04220	.00590	-.16920	.02310	-.00020	.05120	.02910
GRADIENT	.00027	.00002	-.00002	-.01552	.00195	-.00001	.00001	-.00033



MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R03T10) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONF1G = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.900
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2114/ 0 RVL = 6.92 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	.02270	.02020	.19350	-.03040	-.00060	.07470	.04560
1.250	-6.000	.01710	.02210	.14160	-.01840	-.00060	.07620	.04140
1.250	-6.000	.00690	.02690	.09870	-.00950	-.00090	.07820	.03650
1.250	-4.000	-.00290	.03100	.06260	-.00490	-.00070	.09060	.03190
1.250	-2.000	-.01060	.03590	.03210	-.00220	-.00070	.09030	.03960
1.250	.000	-.01570	.03830	-.00030	.00920	-.00100	.07930	.03990
1.250	2.000	-.01410	.03850	-.03090	.00230	-.00100	.07940	.03260
1.250	4.000	-.00530	.03540	-.06100	.00490	-.00100	.07940	.03440
1.250	6.000	.00360	.02990	-.09700	.00910	-.00100	.07780	.03710
1.250	8.000	.00990	.02520	-.14000	.01690	-.00090	.07590	.04150
1.250	10.000	.01570	.02190	-.19220	.03090	-.00170	.07480	.04450
GRADIENT	-.00042	.00057	.00057	-.01553	.00119	-.00005	-.00016	.00035

RUN NO. 2097/ 0 RVL = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.02800	.02690	.20270	-.03460	.00010	.09900	.03120
1.465	-8.000	.01640	.03150	.15040	-.02270	.00000	.09720	.02930
1.465	-6.000	.00170	.03910	.10490	-.01260	-.00030	.09130	.02400
1.465	-4.000	-.00460	.04370	.06750	-.00770	-.00090	.09390	.01890
1.465	-2.000	-.01200	.04640	.03430	-.00400	-.00070	.09430	.01930
1.465	.000	-.01420	.05070	.00450	-.00140	.00010	.09350	.01900
1.465	2.000	-.00720	.04960	-.02840	.00160	-.00090	.09300	.01990
1.465	4.000	-.00650	.04720	-.06900	.00770	.00010	.09660	.02410
1.465	6.000	.00640	.04120	-.10400	.01440	-.00140	.09330	.02460
1.465	8.000	.00650	.04000	-.15290	.02590	.00010	.09430	.02950
1.465	10.000	.00430	.04150	-.21040	.04290	.00000	.09160	.03250
GRADIENT	.00005	.00046	.00046	-.01649	.00192	.00009	.00031	.00059

MSFC 570(1A31F)(T9)/(C3)/(S3/2)/(S3/2)

(R83110) 1 21 SEP 73

REFERENCE DATA

SREF = 6.1990 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COARFIC = 290.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTIC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2069/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
2.990	-10.000	.03240	.01700	.16330	-.01850	-.00040	.04980	.01260
2.990	-8.000	.03910	.01330	.12610	-.01240	.00000	.04980	.01140
2.990	-6.000	.04350	.01010	.09090	-.00770	.00000	.04980	.01020
2.990	-4.000	.04430	.00810	.03750	-.00360	.00010	.04980	.00930
2.990	-2.000	.04110	.00660	.02820	-.00090	-.00020	.04980	.00920
2.990	.000	.03910	.00930	.00170	-.00030	-.00040	.04980	.00940
2.990	2.000	.03970	.00910	-.02360	-.00050	-.00060	.04980	.00970
2.990	4.000	.04130	.00840	-.03130	.00190	-.00020	.04980	.00990
2.990	6.000	.03680	.01050	-.04530	.00690	-.00020	.04980	.01070
2.990	8.000	.03340	.01420	-.12200	.01200	-.00040	.04980	.01210
2.990	10.000	.03290	.01630	-.15710	.01560	-.00030	.04980	.01310
GRADIENT		-.00037	.00005	-.01347	.00057	-.00005	.00002	.00004

RUN NO. 2069/ 0 RN/L = 6.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
3.480	-10.000	.03490	.01310	.15020	-.01170	-.00040	.04750	.00960
3.480	-8.000	.03860	.01030	.11590	-.00720	-.00030	.04640	.00900
3.480	-6.000	.04190	.00850	.09280	-.00330	-.00040	.04630	.00790
3.480	-4.000	.04350	.00740	.05090	.00000	-.00060	.04700	.00710
3.480	-2.000	.04340	.00720	.02450	.00080	-.00030	.04900	.00590
3.480	.000	.04490	.00720	.00390	-.00190	-.00100	.04930	.00750
3.480	2.000	.04390	.00790	-.01700	-.00250	-.00070	.04940	.00860
3.480	4.000	.04320	.00900	-.04590	.00000	.00000	.04940	.00960
3.480	6.000	.04360	.00920	-.07550	.00210	-.00040	.04980	.00960
3.480	8.000	.03910	.01220	-.10940	.00500	-.00100	.04970	.00930
3.480	10.000	.03050	.01610	-.14930	.01100	-.00140	.04910	.00920
GRADIENT		-.00000	.00003	-.01184	-.00017	.00005	.00000	.00023



MSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

(R03T11) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COARFIC = 200.000
 DELTAZ = .280 RUDDER = .000
 X-SRS = .000 ORBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2117/ 0 RNVL = 6.30 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	.04070	.00490	.14320	-.00930	.00000	.01700	.04160
.898	-8.000	.03790	.00530	.10870	-.00990	-.00020	.02320	.03390
.898	-6.000	.03030	.00790	.07660	-.00270	-.00020	.02630	.03040
.898	-4.000	.02420	.00990	.04590	.00000	.00000	.02910	.02730
.898	-2.000	.02370	.01030	.01960	.00090	.00000	.02990	.02520
.898	.000	.02430	.01130	-.00560	.00170	.00000	.03150	.02440
.898	2.000	.02740	.01040	-.03020	.00200	-.00010	.03230	.02350
.898	4.000	.03170	.00910	-.03260	.00190	.00000	.03110	.02300
.898	6.000	.03520	.00660	-.07910	.00370	.00000	.02390	.03090
.898	8.000	.03970	.00330	-.11050	.00700	-.00020	.01670	.03760
.898	10.000	.04420	.00490	-.14220	.01000	.00000	.02020	.04310
GRADIENT		.00094	-.00017	-.01233	.00025	-.00000	.00042	-.00029

RUN NO. 2116/ 0 RNVL = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.033	-10.000	.03090	.00290	.16140	-.01670	.00010	.05020	.03260
1.033	-8.000	.03100	.00230	.12420	-.01230	.00010	.05640	.02790
1.033	-6.000	.04750	.00390	.09980	-.00990	.00010	.05990	.02410
1.033	-4.000	.04110	.00710	.03790	-.00470	.00010	.06190	.01950
1.033	-2.000	.03560	.01010	.02990	-.00210	.00030	.05460	.01550
1.033	.000	.03310	.01090	.00040	-.00030	.00010	.06360	.01350
1.033	2.000	.03450	.00940	-.03000	.00210	.00000	.06490	.01390
1.033	4.000	.03730	.00780	-.05970	.00520	-.00010	.06380	.01730
1.033	6.000	.04160	.00600	-.09000	.00940	-.00030	.06030	.02160
1.033	8.000	.04790	.00310	-.12350	.01190	-.00010	.05460	.02590
1.033	10.000	.05290	.00100	-.15900	.01590	-.00010	.05400	.03090
GRADIENT		-.00044	.00003	-.01470	.00120	-.00003	.00021	-.00020

(093T11) (21 SEP 73)

MSFC 570(1A31F)(T9)/(C3)/(S3/2)/(S3/2)

REFERENCE DATA

3REF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 3REF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 3.000 CONF10 = 200.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 ORBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2115/ 0 RW/L = 6.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	.04890	.01190	.17410	-.01940	-.00050	.07550	.04150
1.250	-8.000	.04180	.01300	.12820	-.01050	-.00040	.07450	.03950
1.250	-6.000	.03510	.01640	.09130	-.00590	-.00040	.07370	.03670
1.250	-4.000	.02740	.02160	.04930	-.00310	-.00010	.07860	.03340
1.250	-2.000	.02080	.02490	.02960	-.00110	-.00020	.07990	.03260
1.250	.000	.01830	.02610	.00930	-.00020	-.00010	.07910	.03370
1.250	2.000	.01890	.02640	-.02710	.00000	.00000	.07900	.03480
1.250	4.000	.02230	.02410	-.05850	.00190	-.00020	.07910	.03680
1.250	6.000	.02980	.01970	-.09210	.00660	-.00020	.07740	.03980
1.250	8.000	.03750	.01620	-.12950	.01290	-.00030	.07500	.04350
1.250	10.000	.03980	.01560	-.17980	.02130	-.00080	.07310	.04560
GRADIENT		-.00061	.00033	-.01456	.00055	.00000	.00001	.00043

RUN NO. 2096/ 0 RW/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.03390	.01190	.18370	-.02400	-.00020	.08910	.02970
1.465	-8.000	.03120	.01230	.13560	-.01400	-.00020	.09090	.02320
1.465	-6.000	.04430	.01690	.09420	-.00620	-.00050	.09310	.01880
1.465	-4.000	.03420	.02240	.06080	-.00290	-.00050	.09230	.01840
1.465	-2.000	.02710	.02600	.02820	-.00030	-.00090	.09340	.01920
1.465	.000	.02620	.02670	.00090	-.00050	-.00050	.09310	.01770
1.465	2.000	.02830	.02680	-.02720	.00040	.00000	.09450	.01920
1.465	4.000	.03440	.02430	-.05660	.00070	-.00050	.09500	.02100
1.465	6.000	.03910	.02090	-.09450	.00590	-.00030	.09420	.02270
1.465	8.000	.04370	.01950	-.13800	.01610	-.00010	.09330	.02540
1.465	10.000	.04220	.02010	-.19250	.03010	-.00040	.09190	.02890
GRADIENT		.00009	.00023	-.01451	.00039	.00004	.00033	.00031



MSFC 570(1A31F)(T9)/(G3)/(S3/2)/(S3/2)

(R03T11) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFIG = 200.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2070/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.05410	.00510	.15270	-.01090	-.00040	.09010	.01250
2.990	-8.000	.05940	.00240	.11600	-.00550	-.00040	.09000	.01110
2.990	-6.000	.05830	.00230	.08360	-.00260	.00000	.09040	.01010
2.990	-4.000	.05750	.00180	.05340	-.00090	-.00020	.09030	.00990
2.990	-2.000	.05540	.00280	.02650	.00030	-.00050	.09020	.01020
2.990	.000	.05180	.00450	.00250	-.00050	-.00090	.09060	.01040
2.990	2.000	.05390	.00300	-.02170	-.00070	-.00060	.09140	.01020
2.990	4.000	.05540	.00260	-.04780	.00020	-.00040	.09140	.01020
2.990	6.000	.05610	.00330	-.07710	.00200	-.00040	.09110	.01090
2.990	8.000	.05740	.00360	-.11030	.00330	-.00020	.09140	.01190
2.990	10.000	.05210	.00710	-.14690	.01030	-.00010	.09220	.01260
	GRADIENT	-.00028	.00009	-.01253	.00005	-.00002	.00017	.00003

RUN NO. 2071/ 0 RN/L = 6.54 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.05280	.00610	.14550	-.00690	-.00040	.08860	.00930
3.480	-8.000	.05610	.00360	.11200	-.00320	-.00020	.08840	.00960
3.480	-6.000	.05630	.00190	.07830	.00020	-.00030	.08830	.00820
3.480	-4.000	.05620	.00200	.04770	.00270	-.00030	.08810	.00940
3.480	-2.000	.05390	.00260	.02340	.00190	-.00060	.08800	.00870
3.480	.000	.05430	.00270	.00310	-.00090	-.00040	.08820	.00900
3.480	2.000	.05490	.00330	-.01700	-.00300	-.00010	.08850	.00960
3.480	4.000	.05490	.00330	-.04220	-.00290	-.00020	.08890	.00920
3.480	6.000	.05570	.00310	-.07100	-.00150	-.00030	.08920	.00900
3.480	8.000	.05410	.00490	-.10160	.00050	-.00010	.08950	.00840
3.480	10.000	.05210	.00730	-.13720	.00490	-.00020	.08920	.00930
	GRADIENT	-.00007	.00016	-.01101	-.00079	.00004	.00010	.00012

MSFC 570 (1A31F) (T9) / (S3/2) / (S3/2)

(R8312) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CONFIG = 200.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2118/ 0 RN/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	.03230	.00700	.13860	-.00850	-.00090	.01660	.03970
.898	-8.000	.03030	.00760	.10590	-.00490	-.00050	.01970	.03630
.898	-6.000	.02480	.00970	.07620	-.00270	-.00060	.02400	.03150
.898	-4.000	.01820	.01330	.04970	-.00130	-.00060	.02730	.02750
.898	-2.000	.01590	.01520	.02600	-.00050	-.00040	.02950	.02530
.898	.000	.01340	.01650	.00010	.00020	-.00050	.03140	.02300
.898	2.000	.01340	.01590	-.02560	.00070	-.00060	.03130	.02200
.898	4.000	.02000	.01230	-.04810	.00040	-.00060	.03070	.02290
.898	6.000	.02570	.00950	-.07410	.00200	-.00070	.02650	.02800
.898	8.000	.02760	.00950	-.10530	.00370	-.00090	.02020	.03370
.898	10.000	.02970	.00940	-.13650	.00930	-.00060	.01990	.03740
GRADIENT		.00005	-.00007	-.01236	.00023	-.00001	.00043	-.00065

RUN NO. 2119/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	.03550	.00670	.15440	-.01570	-.00030	.05240	.03060
1.048	-8.000	.03340	.00710	.11750	-.01080	-.00030	.05570	.02730
1.048	-6.000	.02860	.00860	.08410	-.00710	-.00030	.05660	.02460
1.048	-4.000	.02320	.01100	.05420	-.00420	-.00020	.06150	.01950
1.048	-2.000	.02390	.01170	.02590	-.00190	-.00060	.06540	.01510
1.048	.000	.02030	.01360	-.00150	.00000	-.00050	.06590	.01240
1.048	2.000	.01900	.01400	-.02840	.00170	-.00050	.06560	.01270
1.048	4.000	.02410	.01150	-.05700	.00430	-.00050	.06340	.01670
1.048	6.000	.02850	.00940	-.08620	.00690	-.00030	.05910	.02220
1.048	8.000	.03390	.00720	-.11630	.00980	-.00040	.05530	.02630
1.048	10.000	.03930	.00540	-.15230	.01450	-.00040	.05270	.02940
GRADIENT		-.00015	.00016	-.01393	.00102	-.00003	.00020	-.00040



MSFC 570(1A31F)(T9)/(S3/2)/(S3/2)

(R03T12) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COAFIG = 200.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2120/ 0 RN/L = 6.68 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	.03130	.01760	.17050	-.01920	-.00030	.07520	.04170
1.249	-8.000	.02630	.01920	.12530	-.01050	-.00040	.07520	.03900
1.249	-6.000	.01860	.02310	.08860	-.00320	-.00040	.07710	.03490
1.249	-4.000	.00720	.02790	.05650	-.00240	-.00040	.07990	.03120
1.249	-2.000	.00280	.03090	.02850	-.00110	-.00040	.09040	.02990
1.249	.000	.00140	.03230	.00040	-.00030	-.00060	.07960	.03090
1.249	2.000	.00100	.03280	-.02820	.00020	-.00070	.07930	.03260
1.249	4.000	.00620	.03110	-.03660	.00150	-.00060	.07930	.03440
1.249	6.000	.01420	.02700	-.09770	.00450	-.00040	.07910	.03670
1.249	8.000	.02100	.02300	-.12620	.01060	-.00050	.07590	.04010
1.249	10.000	.02470	.02110	-.17630	.02190	-.00090	.07360	.04450
GRADIENT	-.00019	.00042	-.01414	.00045	-.00003	-.00011	.00045	.00045

RUN NO. 2095/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	.04240	.01890	.18220	-.02410	-.00080	.09070	.02670
1.466	-8.000	.03750	.02100	.13420	-.01390	-.00040	.09250	.02020
1.466	-6.000	.03080	.02440	.09440	-.00660	-.00010	.09330	.01820
1.466	-4.000	.02400	.02820	.05960	-.00290	-.00020	.09370	.01590
1.466	-2.000	.01900	.03230	.03130	-.00190	-.00030	.09320	.01520
1.466	.000	.01820	.03260	.00190	-.00090	-.00030	.09260	.01510
1.466	2.000	.01860	.03260	-.02770	.00050	-.00010	.09440	.01570
1.466	4.000	.02290	.03120	-.05770	.00180	-.00070	.09590	.01900
1.466	6.000	.03080	.02680	-.09430	.00690	-.00080	.09430	.02040
1.466	8.000	.03140	.02590	-.13880	.01700	-.00110	.09290	.02410
1.466	10.000	.02930	.02590	-.19100	.03010	-.00070	.09590	.02920
GRADIENT	-.00013	.00031	-.01468	.00059	-.00003	-.00019	.00035	.00035

MSFC 370 (1A31F) (T9)/(C3)/(S3/2)/(S3/2)

(093112) (21 SEP 73)

REFERENCE DATA

SREF = 6.1950 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COEFFIC = 200.000
DELTAZ = .250 RUDDER = .000
X-SEB = .000 ZPGINC = .000
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2073/ 0 RIVL = 4.25 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.04980	.00920	.15060	-.00990	-.00030	.09980	.01190
2.990	-8.000	.05170	.00720	.11430	-.00490	-.00040	.08990	.01050
2.990	-6.000	.05520	.00520	.08100	-.00110	-.00040	.08990	.00930
2.990	-4.000	.05620	.00440	.05150	.00060	-.00010	.09040	.00980
2.990	-2.000	.05120	.00600	.02450	.00100	-.00040	.09040	.00980
2.990	.000	.04960	.00680	.00110	.00090	-.00030	.09980	.00940
2.990	2.000	.05190	.00540	-.02340	-.00030	.00010	.09040	.00920
2.990	4.000	.04980	.00620	-.04910	.00010	-.00100	.09110	.00920
2.990	6.000	.05000	.00710	-.07570	.00130	-.00140	.09150	.00990
2.990	8.000	.05370	.00670	-.10590	.00390	.00000	.09210	.01060
2.990	10.000	.05300	.00900	-.14320	.00990	-.00010	.09200	.01170
GRADIENT		-.00060	.00015	-.01247	-.00012	-.00007	.00007	.00003

RUN NO. 2072/ 0 RIVL = 6.80 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.05020	.00870	.14090	-.00490	-.00030	.09930	.00930
3.490	-8.000	.05080	.00680	.10330	-.00030	-.00040	.09740	.00750
3.490	-6.000	.05270	.00370	.07380	.00260	-.00030	.09720	.00710
3.490	-4.000	.05350	.00360	.04710	.00330	-.00030	.09810	.00760
3.490	-2.000	.05140	.00620	.02450	.00180	-.00030	.09980	.00900
3.490	.000	.05180	.00650	.00350	-.00090	.00000	.09980	.00930
3.490	2.000	.05070	.00720	-.01790	-.00300	-.00020	.09840	.00900
3.490	4.000	.05040	.00660	-.04260	-.00350	-.00070	.09890	.00990
3.490	6.000	.05270	.00550	-.07540	-.00290	-.00060	.09860	.00920
3.490	8.000	.05190	.00670	-.10100	-.00050	-.00020	.09810	.00930
3.490	10.000	.04750	.00960	-.13660	.00390	-.00030	.09630	.00910
GRADIENT		-.00034	.00015	-.01109	-.00002	-.00001	.00006	.00017



MSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R83T13) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 80. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CCNFIG = 202.000
 DELTAZ = .280 RUDDER = .000
 X-SRS = .000 CRSTNC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2123/ 0 RVL = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	.02710	.01230	.13710	-.00960	-.00050	.01890	.03790
.899	-8.000	.02470	.01230	.10360	-.00950	-.00050	.02110	.03420
.899	-6.000	.02060	.01430	.07410	-.00340	-.00060	.02490	.03030
.899	-4.000	.01620	.01730	.04790	-.00200	-.00060	.02800	.02640
.899	-2.000	.01330	.01980	.02340	-.00080	-.00040	.02970	.02340
.899	.000	.01260	.02040	-.00160	.00010	-.00050	.03110	.02150
.899	2.000	.01550	.01960	-.02650	.00090	-.00050	.03130	.02090
.899	4.000	.02090	.01540	-.05050	.00130	-.00060	.03000	.02140
.899	6.000	.02590	.01300	-.07800	.00350	-.00070	.02700	.02600
.899	8.000	.03040	.01190	-.10950	.00750	-.00070	.02290	.03270
.899	10.000	.03470	.01160	-.14050	.01120	-.00050	.01970	.03530
GRADIENT	.00058	-.00025	-.01233	.00041	-.00001	.00028	-.00063	

RUN NO. 2122/ 0 RVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.043	-10.000	.03530	.00980	.15230	-.01630	-.00040	.03280	.02940
1.043	-8.000	.03260	.01030	.11620	-.01120	-.00040	.03490	.02520
1.043	-6.000	.02790	.01220	.08360	-.00730	-.00040	.03580	.02280
1.043	-4.000	.02390	.01460	.05430	-.00440	-.00030	.06090	.01830
1.043	-2.000	.02150	.01540	.02510	-.00140	-.00060	.06450	.01400
1.043	.000	.01840	.01650	-.00310	.00090	-.00060	.06460	.01210
1.043	2.000	.01970	.01660	-.02970	.00290	-.00040	.06470	.01190
1.043	4.000	.02540	.01450	-.05760	.00540	-.00040	.06220	.01320
1.043	6.000	.03060	.01240	-.08660	.00910	-.00040	.05790	.02050
1.043	8.000	.03570	.01060	-.11630	.01100	-.00040	.05440	.02430
1.043	10.000	.03990	.00950	-.14970	.01560	-.00020	.04960	.02750
GRADIENT	.00007	.00025	-.01393	.00119	.00000	.00014	-.00042	

NSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R03T13) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 SREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 COEFIC = 200.000
 DELTAZ = .280 RUDDER = .000
 X-SEB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2121/ 0 R/V/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	.02110	.02450	.16630	-.01930	-.00030	.07510	.03970
1.244	-8.000	.01730	.02650	.12260	-.01080	-.00040	.07630	.03620
1.244	-6.000	.01020	.03010	.08610	-.00530	-.00340	.07860	.03230
1.244	-4.000	.00140	.03400	.05430	-.00260	-.00050	.08020	.02960
1.244	-2.000	-.00250	.03660	.02640	-.00140	-.00090	.08030	.02430
1.244	.000	-.00420	.03790	-.00200	-.00040	-.00060	.07990	.02820
1.244	2.000	-.00330	.03800	-.03100	.00060	-.00070	.07950	.02990
1.244	4.000	.00310	.03570	-.06920	.00270	-.00070	.07920	.03220
1.244	6.000	.01120	.03160	-.09270	.00620	-.00040	.07830	.03450
1.244	8.000	.01710	.02820	-.13160	.01230	-.00020	.07620	.03790
1.244	10.000	.02080	.02650	-.18000	.02370	-.00090	.07350	.04320
1.244	GRADIENT	.00013	.00024	-.01432	.00063	-.00003	-.00014	.00034

RUN NO. 2094/ 0 R/V/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.465	-10.000	.03120	.02730	.18180	-.02490	-.00030	.09150	.02500
1.465	-8.000	.02650	.02900	.13320	-.01410	-.00020	.09170	.01960
1.465	-6.000	.01730	.03370	.09260	-.00650	-.00020	.09300	.01630
1.465	-4.000	.01210	.03690	.05870	-.00300	-.00050	.09390	.01370
1.465	-2.000	.00660	.04010	.03040	-.00180	-.00030	.09310	.01310
1.465	.000	.00610	.04140	.00240	-.00120	-.00020	.09250	.01320
1.465	2.000	.00820	.04110	-.02640	.00020	-.00030	.09430	.01370
1.465	4.000	.01020	.04040	-.05780	.00240	-.00050	.09550	.01690
1.465	6.000	.01830	.03640	-.09270	.00730	-.00040	.09420	.01960
1.465	8.000	.01790	.03540	-.13750	.01780	-.00050	.09210	.02320
1.465	10.000	.01680	.03540	-.18840	.03030	-.00040	.09000	.02750
1.465	GRADIENT	-.00011	.00040	-.01449	.00064	.00000	.00023	.00035



MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R03T13) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = 5.000 CCNFIC = 200.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBTNC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2074/ 0 RIVL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	.04270	.01260	.14530	-.00420	-.00090	.08840	.01090
2.990	-8.000	.04850	.00940	.11110	-.00390	-.00040	.08860	.00910
2.990	-6.000	.05150	.00760	.07910	-.00120	-.00030	.08840	.00790
2.990	-4.000	.05120	.00730	.04930	.00090	-.00100	.08870	.00760
2.990	-2.000	.04730	.00800	.02350	.00080	-.00120	.08910	.00910
2.990	.000	.04840	.00840	.00130	-.00040	-.00040	.08930	.00980
2.990	2.000	.05020	.00860	-.02150	-.00170	-.00030	.08970	.00940
2.990	4.000	.04970	.00920	-.04630	-.00150	-.00070	.09000	.00940
2.990	6.000	.05050	.00950	-.07390	.00000	-.00030	.09030	.00910
2.990	8.000	.05010	.01060	-.10500	.00220	-.00030	.09100	.00940
2.990	10.000	.04780	.01360	-.13920	.00640	-.00020	.09110	.01040
GRADIENT	-.00001	.00022	-.01181	-.00036	-.00007	.00016	.00029	

RUN NO. 2073/ 0 RIVL = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	.04410	.01120	.13630	-.00290	-.00040	.08790	.00730
3.480	-8.000	.04910	.00940	.10360	.00060	-.00030	.08750	.00640
3.480	-6.000	.05050	.00920	.07420	.00270	-.00030	.08790	.00630
3.480	-4.000	.05200	.00850	.04730	.00360	-.00110	.08870	.00650
3.480	-2.000	.05090	.00910	.02470	.00240	-.00060	.08980	.00670
3.480	.000	.04880	.00950	.00290	-.00020	-.00030	.08930	.00710
3.480	2.000	.04990	.00800	-.01990	-.00260	-.00040	.08800	.00810
3.480	4.000	.05020	.00910	-.04350	-.00360	.00000	.08760	.00910
3.480	6.000	.04820	.00900	-.06970	-.00350	-.00010	.08780	.00750
3.480	8.000	.04680	.01010	-.09940	-.00190	-.00040	.08990	.00740
3.480	10.000	.04730	.01140	-.13300	.00220	-.00030	.09010	.00640
GRADIENT	-.00023	-.00010	-.01131	-.00097	.00012	-.00015	.00023	

(R83714) (21 SEP 73)

MSFC 570 (1A31F) (T9) / (G3) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COARFIC = 200.000
DELTAZ = .149 RUDDER = .000
X-SRB = .000 CRBINC = -.300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2124/ 0 RN/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
.899	-10.000	-.07430	-.03720	.12500	.00230	-.00020	.02490	.03580
.899	-8.000	-.08310	-.03310	.09990	.00090	-.00060	.02740	.03290
.899	-6.000	-.09300	-.02780	.07500	-.00060	-.00030	.03030	.04790
.899	-4.000	-.10140	-.02290	.05140	-.00200	-.00070	.03330	.04230
.999	-2.000	-.10820	-.01920	.02570	-.00120	-.00040	.03540	.03790
.899	.000	-.10940	-.01760	.00070	.00030	-.00040	.03580	.03690
.899	2.000	-.10320	-.01990	-.02560	.00290	-.00060	.03410	.03980
.899	4.000	-.09670	-.02330	-.05150	.00440	-.00030	.03170	.04370
.899	6.000	-.08810	-.02870	-.07750	.00400	-.00130	.02960	.04900
.899	8.000	-.08290	-.03260	-.10490	.00350	-.00210	.02800	.05290
.899	10.000	-.08050	-.03480	-.13020	.00350	.00040	.02740	.05730
GRADIENT		.00062	-.00003	-.01295	.00044	.00003	-.00022	.00023

RUN NO. 2125/ 0 RN/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.049	-10.000	-.08070	-.03970	.15510	-.00840	-.00050	.06090	.04560
1.049	-8.000	-.09240	-.03580	.12210	-.00750	-.00060	.06330	.04360
1.049	-6.000	-.10400	-.02890	.08670	-.00480	-.00020	.06770	.03830
1.049	-4.000	-.11290	-.02330	.05680	-.00200	-.00040	.07050	.03390
1.049	-2.000	-.11820	-.01990	.02930	-.00120	-.00060	.07060	.03140
1.049	.000	-.11960	-.01840	.00020	.00020	-.00090	.06990	.03050
1.049	2.000	-.11600	-.02070	-.03190	.00320	-.00070	.06680	.03290
1.049	4.000	-.10820	-.02500	-.06280	.00540	-.00030	.06390	.03760
1.049	6.000	-.10050	-.03050	-.09530	.00930	-.00110	.06250	.04190
1.049	8.000	-.09300	-.03490	-.12960	.01190	-.00170	.06190	.04490
1.049	10.000	-.08170	-.03990	-.16440	.01310	-.00010	.06200	.04740
GRADIENT		.00059	-.00018	-.01501	.00106	.00001	-.00095	.00044

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R03T14) (21 SEP 73)

REFERENCE DATA

BREF = 0.190 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CCAFTG = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2126/ 1 RNL = 6.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	-.09860	-.04160	.16900	-.01350	-.00070	.07680	.05540
1.244	-8.000	-.10490	-.03760	.12740	-.00760	-.00070	.07770	.05190
1.244	-6.000	-.11320	-.03130	.09000	-.00340	-.00060	.07960	.04940
1.244	-4.000	-.12120	-.02490	.05840	-.00140	-.00070	.08260	.04560
1.244	-2.000	-.12800	-.02120	.02770	-.00010	-.00070	.08330	.04310
1.244	.000	-.13180	-.01980	-.00240	.00110	-.00070	.08360	.04230
1.244	2.000	-.12810	-.02160	-.03060	.00190	-.00060	.08240	.04490
1.244	4.000	-.12080	-.02590	-.06000	.00240	-.00040	.08040	.04830
1.244	6.000	-.11390	-.03130	-.09640	.00690	-.00040	.07940	.05060
1.244	8.000	-.10830	-.03620	-.13900	.01310	-.00060	.07630	.05350
1.244	10.000	-.10740	-.03540	-.17860	.01830	-.00050	.07610	.05770
1.244	GRADIENT	.00004	-.00011	-.01475	.00046	.00003	-.00027	.00036

RUN NO. 2093/ 0 RNL = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	-.10810	-.02370	.17600	-.02180	-.00050	.08910	.04910
1.466	-8.000	-.10320	-.02750	.12860	-.01280	-.00060	.08980	.04670
1.466	-6.000	-.10390	-.02690	.08240	-.00290	-.00050	.09150	.04360
1.466	-4.000	-.10770	-.02300	.05150	.00020	-.00060	.09460	.03940
1.466	-2.000	-.11360	-.01980	.02320	.00030	-.00040	.09580	.03650
1.466	.000	-.11460	-.01800	-.00070	-.00010	-.00020	.09610	.03690
1.466	2.000	-.11510	-.01880	-.02930	.00030	-.00030	.09630	.03920
1.466	4.000	-.10970	-.02530	-.06570	.00490	-.00050	.09500	.04290
1.466	6.000	-.10550	-.02780	-.10420	.01160	-.00140	.09390	.04570
1.466	8.000	-.11140	-.02250	-.14390	.01940	-.00210	.09370	.04670
1.466	10.000	-.11400	-.02200	-.19160	.02650	.00000	.09170	.04930
1.466	GRADIENT	-.00026	-.00018	-.01444	.00046	.00001	.00005	.00047

(R83114) (21 SEP 73)

MSFC 370 (1A31F) (T9) (G3) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2077/ 0 RVL = 4.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-1.1490	.02410	.16360	-.01060	.00000	.09060	.01640
2.990	-8.000	-1.13850	.01920	.12190	-.00340	-.00060	.09970	.01930
2.990	-6.000	-1.13360	.01410	.08390	.00150	-.00090	.09970	.01790
2.990	-4.000	-1.13490	.01410	.05240	.00290	-.00060	.09990	.01670
2.990	-2.000	-1.13680	.01510	.02710	.00260	.00010	.09990	.01510
2.990	.000	-1.14100	.01690	.00170	.00120	.00020	.09990	.01640
2.990	2.000	-1.14020	.01720	-.02160	-.00090	.00000	.09130	.01710
2.990	4.000	-1.13480	.01560	-.04840	-.00140	.00010	.09190	.01790
2.990	6.000	-1.13540	.01630	-.07960	.00010	-.00160	.09130	.01990
2.990	8.000	-1.14330	.02140	-.11650	.00390	-.00290	.09090	.02000
2.990	10.000	-1.16020	.02900	-.16590	.01310	.00020	.09970	.02190
GRADIENT		-.00016	.00025	-.01251	-.00060	.00007	.00037	.00017

RUN NO. 2078/ 0 RVL = 5.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.14130	.02420	.15640	-.01010	-.00060	.09340	.01330
3.480	-8.000	-1.13400	.01940	.11830	-.00370	-.00030	.09320	.01390
3.480	-6.000	-1.12970	.01690	.08360	.00060	-.00090	.09310	.01410
3.480	-4.000	-1.12900	.01640	.05420	.00230	-.00220	.09440	.01370
3.480	-2.000	-1.13260	.01790	.02690	.00190	-.00190	.09500	.01250
3.480	.000	-1.13190	.01830	.00330	.00000	-.00030	.09630	.01270
3.480	2.000	-1.12900	.01820	-.01980	-.00220	-.00060	.09690	.01330
3.480	4.000	-1.12940	.01800	-.04670	-.00230	-.00090	.09750	.01390
3.480	6.000	-1.13330	.01830	-.07990	.00020	-.00190	.09710	.01490
3.480	8.000	-1.14040	.02150	-.11560	.00420	-.00240	.09670	.01560
3.480	10.000	-1.14940	.02820	-.15040	.01020	.00000	.09770	.01620
GRADIENT		.00014	.00017	-.01242	-.00064	.00018	.00041	.00005



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (T8)/(C3)/(S3/2)/(S3/2)

(R03T15) (21 SEP 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2129/ 0 RNVL = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.08350	-.03310	.12550	-.00010	-.00070	.02410	.03510
.900	-8.000	-.08840	-.02850	.10050	-.00070	-.00070	.02370	.03190
.900	-6.000	-.10060	-.02260	.07510	-.00160	-.00070	.02790	.04760
.900	-4.000	-.11400	-.01620	.04970	-.00170	-.00070	.03320	.04140
.900	-2.000	-.11840	-.01160	.02580	-.00070	-.00050	.03670	.03640
.900	.000	-.11380	-.01220	.00040	.00150	-.00090	.03640	.03570
.900	2.000	-.11210	-.01510	-.02760	.00410	-.00090	.03310	.04000
.900	4.000	-.10760	-.01850	-.05280	.00300	-.00100	.04330	.04700
.900	6.000	-.09810	-.02130	-.07430	.00390	-.00060	.02910	.04700
.900	8.000	-.09080	-.02490	-.09900	.00300	-.00020	.02670	.05210
.900	10.000	-.08540	-.03200	-.12650	.00360	-.00070	.02660	.05520
GRADIENT	.00096	-.00041	-.01293	.00091	-.00005	-.00005	-.00041	.00039

RUN NO. 2128/ 0 RNVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.08860	-.03660	.15090	-.00980	-.00070	.06930	.04420
1.048	-8.000	-.09810	-.03150	.11820	-.00840	-.00030	.06310	.04220
1.048	-6.000	-.10860	-.02480	.08760	-.00650	-.00400	.06440	.03900
1.048	-4.000	-.11630	-.01990	.05670	-.00360	-.00260	.06680	.03390
1.048	-2.000	-.12130	-.01650	.02850	-.00150	-.00070	.06900	.03040
1.048	.000	-.12350	-.01520	-.00230	.00100	-.00090	.06800	.02870
1.048	2.000	-.12030	-.01690	-.03430	.00300	-.00090	.06620	.03120
1.048	4.000	-.11570	-.02010	-.06420	.00850	-.00080	.06320	.03670
1.048	6.000	-.10970	-.02470	-.09360	.01160	-.00090	.06130	.04090
1.048	8.000	-.10030	-.03050	-.12870	.01400	-.00070	.06180	.04330
1.048	10.000	-.08940	-.03560	-.16090	.01370	-.00120	.06020	.04490
GRADIENT	.00011	-.00004	-.01523	.00153	.00017	-.00005	-.00033	.00033

(R8315) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

ALPHA = -5.000
DELTAZ = .140
X-SRB = .000
SPACER = .000
SPACAP = .000

CONFIG = 200.000
RUDDER = .000
CRBLINC = .500
SPADIA = .000

PARAMETRIC DATA

RUN NO. 2127/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-11450	-03370	.17050	-.01340	-.00080	.07510	.05590
1.245	-8.000	-11940	-03020	.12960	-.00970	-.00060	.07760	.05130
1.245	-6.000	-12450	-02410	.09340	-.00560	-.00050	.08060	.04770
1.245	-4.000	-13360	-01860	.05950	-.00240	-.00030	.08320	.04390
1.245	-2.000	-13870	-01310	.03040	-.00110	-.00020	.08320	.04260
1.245	.000	-14100	-01190	.00130	-.00030	-.00010	.08350	.04170
1.245	2.000	-13980	-01500	-.02790	.00130	-.00020	.08290	.04340
1.245	4.000	-13280	-01970	-.05940	.00410	-.00070	.07970	.04980
1.245	6.000	-12510	-02630	-.09460	.00770	-.00080	.07830	.05130
1.245	8.000	-12280	-02930	-.13240	.01250	-.00070	.07800	.05290
1.245	10.000	-12790	-02590	-.17240	.01910	-.00060	.07330	.06190
GRADIENT		.00003	-.00010	-.01490	.00077	.00001	-.00037	.00053

RUN NO. 2092/ 0 RN/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	-11580	-01850	.16710	-.02170	-.00070	.09090	.04720
1.467	-8.000	-11050	-02270	.12140	-.01160	-.00080	.09030	.04590
1.467	-6.000	-10480	-02390	.08340	-.00500	-.00030	.09250	.04230
1.467	-4.000	-11020	-01950	.05140	-.00200	-.00040	.09320	.03790
1.467	-2.000	-11860	-01590	.02130	-.00030	-.00010	.09370	.03570
1.467	.000	-12190	-01420	-.00600	-.00060	-.00090	.09340	.03580
1.467	2.000	-12180	-01500	-.03390	-.00010	-.00090	.09520	.03910
1.467	4.000	-11650	-01970	-.06820	.00400	-.00020	.09360	.04190
1.467	6.000	-11430	-02140	-.10830	.01170	-.00040	.09410	.04390
1.467	8.000	-12130	-01730	-.15140	.02080	-.00090	.09350	.04520
1.467	10.000	-12730	-01410	-.19710	.02930	-.00060	.09270	.04890
GRADIENT		.00079	.00003	-.01472	.00062	.00001	.00006	.00056



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TABULATED SOURCE DATA - MSFC 570

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(R03T15) (21 SEP 73)

MSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFLC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .000
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2078/ 0 RVL = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.16290	.03260	.16320	-.01420	-.00070	.09170	.01610
2.990	-8.000	-.15420	.02630	.12000	-.00600	-.00050	.09050	.01390
2.990	-6.000	-.14640	.02250	.08670	-.00230	-.00060	.09000	.01350
2.990	-4.000	-.14630	.02220	.05760	-.00090	-.00020	.09070	.01480
2.990	-2.000	-.15180	.02280	.02980	-.00110	-.00060	.09070	.01360
2.990	.000	-.15130	.02280	.00420	-.00230	-.00110	.09130	.01370
2.990	2.000	-.15080	.02310	-.02410	-.00270	-.00090	.09100	.01490
2.990	4.000	-.15240	.02360	-.05160	-.00200	-.00060	.09130	.01360
2.990	6.000	-.15340	.02320	-.07910	-.00040	-.00030	.09120	.01690
2.990	8.000	-.16050	.02980	-.11350	.00330	-.00040	.09200	.01950
2.990	10.000	-.17790	.03810	-.15570	.01020	-.00180	.09950	.01960
	GRADIENT	-.00036	.00016	-.01361	-.00019	-.00005	.00009	.00014

RUN NO. 2079/ 0 RVL = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.15610	.03100	.15470	-.01110	-.00060	.08920	.01310
3.480	-8.000	-.14900	.02650	.11610	-.00400	-.00110	.09970	.01230
3.480	-6.000	-.14320	.02240	.08000	.00050	-.00130	.08730	.01190
3.480	-4.000	-.14300	.02210	.05190	.00150	-.00080	.08750	.01150
3.480	-2.000	-.14020	.02250	.02990	.00000	-.00020	.08790	.01080
3.480	.000	-.14050	.02290	.00540	-.00190	-.00070	.08790	.01110
3.480	2.000	-.14660	.02420	-.02320	-.00200	-.00070	.09900	.01170
3.480	4.000	-.14740	.02420	-.04990	-.00220	-.00030	.09940	.01190
3.480	6.000	-.14420	.02510	-.07600	-.00180	-.00040	.09940	.01280
3.480	8.000	-.14970	.02910	-.10820	.00180	-.00030	.09900	.01430
3.480	10.000	-.16590	.03560	-.14810	.00910	.00010	.09940	.01900
	GRADIENT	-.00076	.00030	-.01293	-.00047	.00003	.00010	.00009

MSFC 570 (1A31F) (T9)/(G3)/(S3/2)/(S3/2)

(R03T16) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

XMRP = 2.5430 IN.
YMRP = .0000 IN.
ZMRP = .0000 IN.

ALPHA = -5.000
DELTAZ = .140
X-SRB = .000
SPACER = .000
SPACAP = .000

CONFIC = 200.000
RUDDER = .000
CRSINC = 1.000
SPADIA = .000

PARAMETRIC DATA

RUN NO. 2130/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.897	-10.000	-.08420	-.02670	.12430	-.00210	-.00070	.02270	.03360
.897	-8.000	-.09220	-.02240	.09880	-.00220	-.00050	.02330	.03070
.897	-6.000	-.10330	-.01360	.07420	-.00270	-.00070	.02880	.04510
.897	-4.000	-.10980	-.01030	.05110	-.00260	-.00100	.02990	.04010
.897	-2.000	-.11440	-.00360	.02670	-.00130	-.00060	.03240	.03650
.897	.000	-.11810	-.00590	-.00030	.00120	-.00090	.03320	.03500
.897	2.000	-.11590	-.00770	-.02730	.00370	-.00100	.03220	.03690
.897	4.000	-.10880	-.01100	-.04990	.00490	-.00060	.03180	.03880
.897	6.000	-.10100	-.01370	-.07340	.00450	-.00060	.02840	.04420
.897	8.000	-.09330	-.01790	-.09980	.00450	-.00070	.02360	.05030
.897	10.000	-.08150	-.02680	-.12360	.00500	-.00040	.02410	.05380
	GRADIENT	.00003	-.00018	-.01281	.00100	.00002	.00019	-.00015

RUN NO. 2131/ 1 RN/L = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.09320	-.02940	.15170	-.01160	-.00090	.06140	.04030
1.050	-8.000	-.10300	-.02380	.11990	-.00950	-.00060	.06470	.03720
1.050	-6.000	-.11070	-.01760	.08990	-.00750	-.00260	.06610	.03460
1.050	-4.000	-.11630	-.01310	.06020	-.00480	-.00180	.06820	.03060
1.050	-2.000	-.12050	-.00980	.03010	-.00160	-.00070	.07030	.02810
1.050	.000	-.12090	-.00930	.00000	-.00090	-.00070	.07030	.02890
1.050	2.000	-.11810	-.01100	-.03190	.00490	-.00090	.06840	.02860
1.050	4.000	-.11270	-.01370	-.06140	.00840	-.00100	.06590	.03220
1.050	6.000	-.10460	-.01790	-.09100	.01110	-.00100	.06380	.03610
1.050	8.000	-.09340	-.02370	-.12440	.01480	-.00070	.06210	.03940
1.050	10.000	-.07920	-.03060	-.15730	.01650	-.00100	.06160	.03970
	GRADIENT	.00048	-.00012	-.01526	.00164	.00007	-.00033	.00019



WSFC 570 (1A31F) (19) / (C3) / (33/2) / (33/2)

(083716) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIG = 200.000
 DELTA = .140 RUDDER = .000
 X-SR9 = .000 CRBINC = 1.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2132/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.243	-10.000	-.12130	-.02590	.17110	-.01760	-.00070	.07570	.05430
1.243	-8.000	-.12680	-.02180	.13040	-.01160	-.00030	.07740	.05090
1.243	-6.000	-.13250	-.01830	.09400	-.00700	-.00060	.09040	.04670
1.243	-4.000	-.13860	-.01170	.06040	-.00360	-.00090	.09210	.04360
1.243	-2.000	-.14110	-.00830	.03240	-.00230	-.00070	.09120	.04380
1.243	.000	-.14280	-.00750	.00340	-.00120	-.00070	.09180	.04200
1.243	2.000	-.14050	-.00900	-.02620	.00090	-.00090	.09160	.04290
1.243	4.000	-.13560	-.01260	-.05710	.00430	-.00070	.07900	.04810
1.243	6.000	-.13220	-.01730	-.09040	.00770	-.00060	.07730	.05130
1.243	8.000	-.13030	-.01960	-.12650	.01230	-.00060	.07640	.05360
1.243	10.000	-.13130	-.01790	-.16840	.02120	-.00060	.07440	.05930
GRADIENT		.00033	-.00012	-.01468	.00093	.00001	-.00029	.00041

RUN NO. 2091/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.468	-10.000	-.13290	-.01000	.17220	-.02530	-.00120	.09100	.04320
1.468	-8.000	-.12870	-.01350	.12560	-.01450	-.00100	.09050	.04360
1.468	-6.000	-.12300	-.01490	.08750	-.00750	-.00060	.09100	.04090
1.468	-4.000	-.12870	-.01260	.05400	-.00300	-.00040	.09400	.03710
1.468	-2.000	-.13060	-.00940	.02420	-.00100	-.00030	.09440	.03300
1.468	.000	-.13190	-.00820	-.00340	-.00060	-.00090	.09360	.03350
1.468	2.000	-.13210	-.00880	-.03160	.00030	-.00060	.09410	.03800
1.468	4.000	-.13080	-.01110	-.06410	.00430	-.00030	.09440	.04040
1.468	6.000	-.13090	-.01230	-.10160	.01140	-.00040	.09420	.04120
1.468	8.000	-.13700	-.00990	-.14430	.02040	-.00060	.09400	.04230
1.468	10.000	-.14810	-.00400	-.19330	.03060	-.00060	.09350	.04630
GRADIENT		-.00056	.00015	-.01460	.00079	-.00000	.00003	.00045

(R83T16) (21 SEP 73)

MSFC 370 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFTG = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 DEBTINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2081/ 0 RVL = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.16030	.03550	.15450	-.01150	-.00030	.09130	.01530
2.990	-6.000	-.15130	.02960	.11370	-.00420	-.00090	.09120	.01460
2.990	-6.000	-.14930	.02750	.07930	.00040	-.00040	.09100	.01340
2.990	-4.000	-.14870	.02750	.05220	.00080	-.00030	.09170	.01330
2.990	-2.000	-.15010	.02750	.02720	-.00030	-.00040	.09180	.01220
2.990	.000	-.15990	.03120	.00140	-.00130	-.00040	.09220	.01200
2.990	2.000	-.15890	.02980	-.02640	-.00130	-.00090	.09260	.01310
2.990	4.000	-.15250	.02830	-.05460	-.00040	-.00040	.09300	.01410
2.990	6.000	-.15630	.03070	-.08250	.00070	-.00060	.09260	.01370
2.990	8.000	-.16220	.03440	-.11610	.00430	-.00090	.09220	.01740
2.990	10.000	-.17510	.04120	-.15930	.01190	-.00020	.09360	.01770
GRADIENT		-.00072	.00022	-.01336	-.00017	-.00005	.00017	.00012

RUN NO. 2080/ 0 RVL = 6.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.15450	.03540	.14770	-.00900	-.00040	.09900	.01170
3.480	-6.000	-.14600	.02960	.11130	-.00320	-.00060	.09860	.01100
3.480	-6.000	-.14280	.02710	.07740	.00100	-.00060	.09940	.01030
3.480	-4.000	-.14260	.02710	.04940	.00190	-.00010	.09790	.01020
3.480	-2.000	-.14350	.02800	.02540	.00070	.00000	.09910	.00990
3.480	.000	-.14240	.02730	.00140	-.00120	-.00030	.09900	.00970
3.480	2.000	-.14700	.02760	-.02660	-.00150	-.00050	.09900	.01030
3.480	4.000	-.14800	.02860	-.03140	-.00210	-.00050	.09930	.01070
3.480	6.000	-.15410	.03290	-.07780	-.00140	-.00020	.09960	.01170
3.480	8.000	-.16430	.03900	-.11230	.00290	-.00010	.09910	.01300
3.480	10.000	-.15670	.03670	-.14830	.00630	-.00020	.09010	.01340
GRADIENT		-.00071	.00013	-.01268	-.00051	-.00007	.00004	.00007



WSFC 570 (1A31F) (T9) / (G3) / (G3/2) / (G3/2)

(083717) (21 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CR8INC = -.300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2135/ 0 RVL = 6.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.07630	-.03470	.11220	.00400	-.00060	.02250	.05390
.899	-8.000	-.08750	-.02730	.08840	.00330	-.00060	.02770	.04660
.899	-6.000	-.09570	-.02180	.06910	.00090	-.00030	.03190	.04190
.899	-4.000	-.10370	-.01670	.04630	-.00090	-.00030	.03400	.03670
.899	-2.000	-.10970	-.01330	.02210	-.00120	-.00030	.03440	.03340
.899	.000	-.11040	-.01490	.00180	.00060	-.00020	.03270	.03570
.899	2.000	-.10860	-.01690	.00240	.00060	-.00030	.03110	.03970
.899	4.000	-.10650	-.01850	.00340	.00250	-.00070	.03100	.04020
.899	6.000	-.09840	-.02270	.00720	.00130	-.00020	.02930	.04900
.899	8.000	-.08770	-.02760	.09520	.00000	-.00020	.02570	.05070
.899	10.000	-.08330	-.03130	.12020	-.00090	-.00030	.02900	.05220
GRADIENT		-.00022	-.00036	-.01212	.00052	-.00004	-.00039	.00061

RUN NO. 2134/ 0 RVL = 6.42 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.08750	-.03580	.13800	-.00230	-.00060	.06190	.04190
1.048	-8.000	-.09860	-.02930	.10740	-.00210	-.00030	.06570	.03840
1.048	-6.000	-.10660	-.02590	.07800	-.00090	-.00030	.06790	.03560
1.048	-4.000	-.11480	-.02030	.05230	-.00040	-.00070	.06870	.03310
1.048	-2.000	-.11830	-.01670	.02810	-.00070	-.00030	.06960	.03010
1.048	.000	-.12290	-.01660	.00110	-.00020	-.00110	.06940	.02930
1.048	2.000	-.12370	-.01780	.03080	.00160	-.00030	.06600	.03060
1.048	4.000	-.11820	-.02060	.05770	.00320	-.00040	.06540	.03590
1.048	6.000	-.11210	-.02470	.08520	.00420	-.00060	.06470	.03990
1.048	8.000	-.10300	-.02980	.11540	.00580	-.00030	.06150	.04220
1.048	10.000	-.08590	-.03730	.14890	.00740	-.00060	.06330	.04480
GRADIENT		-.00061	-.00009	-.01394	.00047	.00003	-.00051	.00021

NSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R63717) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COMF10 = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRATING = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2133/ 0 RM/L = 6.36 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.09780	-.04190	.15250	-.00830	-.00090	.07650	.03240
1.246	-8.000	-.10530	-.03690	.11240	-.00150	-.00090	.06050	.04490
1.246	-6.000	-.11590	-.02920	.07630	.00270	-.00050	.04030	.04210
1.246	-4.000	-.12310	-.02270	.04950	.00230	-.00060	.04190	.04060
1.246	-2.000	-.12610	-.01930	.02610	.00050	-.00060	.04290	.04010
1.246	.000	-.12810	-.01770	.00280	-.00080	-.00020	.04390	.03960
1.246	2.000	-.12750	-.01920	-.02400	-.00190	-.00050	.04330	.04000
1.246	4.000	-.12450	-.02260	-.05130	-.00230	-.00060	.04730	.04330
1.246	6.000	-.11920	-.02940	-.08290	.00000	-.00040	.07850	.04730
1.246	8.000	-.11080	-.03550	-.12160	.00600	-.00060	.07710	.05050
1.246	10.000	-.10800	-.03630	-.16300	.01340	-.00070	.07710	.05400
GRADIENT		-.00021	.00001	-.01249	-.00050	.00001	-.00007	.00027

RUN NO. 2090/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	-.11350	-.02150	.15600	-.01360	-.00090	.08990	.04940
1.466	-8.000	-.10970	-.02300	.11370	-.00610	-.00070	.08930	.04900
1.466	-6.000	-.10780	-.02300	.07930	-.00150	-.00070	.09110	.04280
1.466	-4.000	-.10960	-.02090	.04990	.00090	-.00070	.09440	.03750
1.466	-2.000	-.11040	-.01930	.02130	.00140	-.00070	.09440	.03700
1.466	.000	-.11090	-.01890	-.00350	.00040	-.00050	.09370	.03750
1.466	2.000	-.11110	-.01890	-.02940	-.00060	-.00050	.09350	.04040
1.466	4.000	-.11380	-.02030	-.05910	.00150	-.00090	.09310	.04470
1.466	6.000	-.11360	-.02190	-.09310	.00650	-.00070	.09250	.04690
1.466	8.000	-.11050	-.02170	-.12910	.01230	-.00040	.09230	.04900
1.466	10.000	-.11660	-.01960	-.17350	.01960	-.00090	.09380	.04950
GRADIENT		-.00046	.00008	-.01327	-.00004	-.00001	-.00017	.00089



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TABULATED SOURCE DATA - WSFC 570

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WSFC 570(1A31F)(T9)/(03)/(03/2)/(03/2)

(R03717) (21 SEP 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 COAFTC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2082/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-.14090	.02280	.14490	-.00590	-.00070	.08900	.01710
2.990	-8.000	-.13420	.02030	.10800	-.00040	-.00020	.08870	.01620
2.990	-6.000	-.13040	.01830	.07530	.00290	-.00020	.08930	.01530
2.990	-4.000	-.13470	.01810	.04410	.00380	-.00130	.09000	.01450
2.990	-2.000	-.13600	.01970	.02180	.00170	-.00140	.09030	.01360
2.990	.000	-.13430	.02000	.00110	-.00120	-.00090	.09120	.01340
2.990	2.000	-.13630	.01960	-.02710	-.00180	-.00050	.09090	.01420
2.990	4.000	-.13730	.01930	-.05430	-.00200	-.00030	.09060	.01510
2.990	6.000	-.13720	.02050	-.07990	-.00200	-.00050	.09190	.01640
2.990	8.000	-.14070	.02360	-.11230	-.00110	-.00090	.09200	.01810
2.990	10.000	-.14910	.02870	-.15420	.00770	-.00070	.08910	.01990
GRADIENT		-.00027	.00013	-.01228	-.00075	.00014	.00008	.00009

RUN NO. 2083/ 0 RN/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.13610	.02460	.13970	-.00470	-.00040	.08690	.01290
3.480	-8.000	-.12950	.02100	.10270	.00090	-.00060	.08690	.01220
3.480	-6.000	-.12340	.01830	.07330	.00320	-.00050	.08590	.01120
3.480	-4.000	-.12540	.01980	.04640	.00390	-.00010	.09640	.01100
3.480	-2.000	-.12720	.02080	.02300	.00200	-.00090	.09350	.01070
3.480	.000	-.12850	.02030	-.00090	-.00050	-.00100	.09770	.01020
3.480	2.000	-.12840	.02010	-.02670	-.00190	-.00060	.09790	.01060
3.480	4.000	-.13090	.02100	-.03180	-.00270	-.00040	.09980	.01130
3.480	6.000	-.12950	.02170	-.07720	-.00020	-.00020	.09950	.01220
3.480	8.000	-.12910	.02350	-.10750	.00000	-.00010	.09940	.01350
3.480	10.000	-.14490	.02970	-.14580	.00620	-.00070	.09050	.01450
GRADIENT		-.00061	.00010	-.01230	-.00085	-.00002	-.00104	.00002

MSFC 370 (1A31F) (T8) / (G3) / (S3/2) / (S3/2)

(R83719) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONF10 = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBTNC = .300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2136/ 0 RML = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.896	-10.000	-.07990	-.03050	.12040	-.00280	-.00100	.02750	.04970
.896	-6.000	-.08960	-.02360	.09370	-.00320	-.00230	.03230	.04460
.896	-6.000	-.10000	-.01950	.06830	-.00360	-.00160	.03330	.04560
.896	-4.000	-.10870	-.01490	.04360	-.00310	-.00050	.03250	.03730
.896	-2.000	-.11590	-.01080	.02240	-.00390	-.00110	.03230	.03590
.896	.000	-.11730	-.00940	-.00120	.00070	-.00100	.03320	.03320
.896	2.000	-.11490	-.01090	-.02560	.00260	-.00060	.03190	.03690
.896	4.000	-.11100	-.01310	-.04960	.00260	-.00040	.02970	.04090
.896	6.000	-.10360	-.01780	-.07940	.00140	-.00020	.02630	.04620
.896	8.000	-.09650	-.02290	-.09230	.00020	-.00070	.02440	.05040
.896	10.000	-.09410	-.02440	-.11690	-.00020	-.00210	.02990	.05150
GRADIENT	-.00019	.00015	-.01177	.00044	.00003	-.00032	.00041	.00041

RUN NO. 2137/ 1 RML = 6.33 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.08300	-.03120	.13850	-.00420	-.00060	.06120	.04060
1.049	-6.000	-.09380	-.02360	.10940	-.00360	-.00060	.06140	.03950
1.049	-6.000	-.10390	-.01940	.08030	-.00300	-.00090	.06390	.03940
1.049	-4.000	-.10910	-.01540	.05210	-.00120	-.00090	.06670	.03060
1.049	-2.000	-.11250	-.01230	.02570	.00090	-.00070	.06960	.02810
1.049	.000	-.11170	-.01180	-.00100	.00160	-.00090	.06900	.02770
1.049	2.000	-.10500	-.01460	-.02830	.00390	-.00100	.06690	.02970
1.049	4.000	-.10120	-.01690	-.03560	.00300	.00000	.06590	.03110
1.049	6.000	-.09740	-.01910	-.04240	.00650	.00030	.06340	.03470
1.049	8.000	-.08760	-.02420	-.11170	.00830	-.00070	.06020	.03810
1.049	10.000	-.07520	-.03080	-.14480	.01140	-.00110	.06350	.04000
GRADIENT	.00116	-.00026	-.01349	.00073	.00007	-.00016	.00009	.00009

NSFC 370(1A31F) (T9)/(C3)/(S3/2)/(S3/2)

(R03T19) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2138/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-1.0230	-.04030	.13120	-.00980	-.00060	.07650	.03240
1.246	-8.000	-.10800	-.03630	.19930	-.00210	-.00070	.08020	.04450
1.246	-6.000	-.11760	-.02930	.07440	.00220	-.00090	.09140	.04120
1.246	-4.000	-.12460	-.02290	.04690	.00190	-.00070	.08250	.03950
1.246	-2.000	-.12930	-.02000	.02300	.00070	-.00070	.06410	.03560
1.246	.000	-.12950	-.01990	-.00820	.00020	-.00060	.06420	.03790
1.246	2.000	-.12800	-.02020	-.02930	-.00010	-.00070	.08270	.03990
1.246	4.000	-.12650	-.02250	-.03410	-.00090	-.00050	.07990	.04410
1.246	6.000	-.12020	-.02780	-.08530	.00130	-.00090	.07560	.04650
1.246	8.000	-.11310	-.03440	-.12560	.00780	-.00140	.07850	.04920
1.246	10.000	-.11450	-.03360	-.16400	.01510	-.00050	.07760	.05270
GRADIENT		-.00012	.00003	-.01271	-.00031	.00002	-.00036	.00055

RUN NO. 2089/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.467	-10.000	-.11340	-.01690	.13220	-.01400	-.00100	.09040	.04930
1.467	-8.000	-.11110	-.01960	.11190	-.00700	-.00050	.09290	.04520
1.467	-6.000	-.11070	-.01920	.07560	-.00160	-.00040	.09340	.04130
1.467	-4.000	-.11260	-.01740	.04600	.00030	-.00060	.09470	.03730
1.467	-2.000	-.11450	-.01610	.02020	.00090	-.00070	.09490	.03560
1.467	.000	-.11530	-.01600	-.00420	-.00130	-.00090	.09490	.03520
1.467	2.000	-.11660	-.01570	-.03090	-.00190	-.00090	.09420	.03910
1.467	4.000	-.11700	-.01670	-.06210	.00090	-.00070	.09310	.04190
1.467	6.000	-.11770	-.01830	-.09650	.00090	-.00090	.09290	.04420
1.467	8.000	-.12130	-.01730	-.13500	.01260	-.00100	.09260	.04640
1.467	10.000	-.12700	-.01440	-.17990	.02120	-.00030	.09230	.04820
GRADIENT		-.00055	.00009	-.01336	-.00005	-.00002	-.00019	.00059

MSFC 570 (1A31F) (T9) / (Q3) / (S3/2) / (S3/2)

(R03110) (21 SEP 73)

REFERENCE DATA

SREF = 0.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONFIC = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2085/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-1.5840	.03050	.14740	-.00660	-.00050	.09060	.01610
2.990	-8.000	-1.5050	.02540	.10900	-.00030	-.00050	.09070	.01510
2.990	-6.000	-1.14850	.02420	.07540	.00290	-.00020	.09050	.01410
2.990	-4.000	-1.14900	.02490	.04920	.00310	.00000	.09070	.01340
2.990	-2.000	-1.14910	.02460	.02570	.00150	.00000	.09190	.01270
2.990	.000	-1.14940	.02510	.00110	-.00010	.00010	.09200	.01240
2.990	2.000	-1.15110	.02540	-.02370	-.00140	-.00010	.09180	.01310
2.990	4.000	-1.15270	.02560	-.03340	-.00170	-.00030	.09250	.01420
2.990	6.000	-1.15480	.02740	-.07990	-.00100	.00020	.09190	.01530
2.990	8.000	-1.15910	.03020	-.11050	.00160	.00040	.09250	.01690
2.990	10.000	-1.16560	.03330	-.15250	.00790	-.00070	.09270	.01870
2.990	GRADIENT	-.00047	.00012	-.01283	-.00062	-.00003	.00012	.00010

RUN NO. 2084/ 0 RN/L = 6.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.5030	.03010	.14540	-.00630	-.00010	.09900	.01250
3.480	-8.000	-1.14300	.02640	.10910	-.00060	-.00010	.09910	.01220
3.480	-6.000	-1.13950	.02420	.07720	.00290	.00000	.09830	.01110
3.480	-4.000	-1.14060	.02400	.04770	.00370	-.00060	.09830	.01060
3.480	-2.000	-1.14240	.02470	.02330	.00220	-.00060	.09900	.01020
3.480	.000	-1.14120	.02530	.00170	-.00070	-.00020	.09950	.01020
3.480	2.000	-1.14100	.02560	-.02100	-.00350	.00000	.09900	.01060
3.480	4.000	-1.14120	.02550	-.04630	-.00410	-.00010	.09900	.01110
3.480	6.000	-1.14490	.02740	-.07480	-.00340	-.00010	.09990	.01170
3.480	8.000	-1.15110	.03070	-.10650	-.00020	.00000	.09960	.01260
3.480	10.000	-1.15240	.03390	-.14100	.00500	-.00020	.09940	.01450
3.480	GRADIENT	.00001	.00019	-.01161	-.00104	.00008	.00002	.00007



NSFC 570 (1A31F) (T9) / (S3/2) / (S3/2)

(R03T19) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CCNFTG = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBTNC = 1.500
 SPACER = .000 SPADTA = .000
 SPAGAP = .000

RUN NO. 2141/ 0 RN/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	-.08930	-.02420	.12340	-.00420	-.00070	.02800	.04700
.898	-8.000	-.09800	-.01890	.09340	-.00240	-.00110	.02880	.04440
.898	-6.000	-.10500	-.01250	.06900	-.00060	-.00090	.02870	.04230
.898	-4.000	-.11130	-.00760	.04660	-.00090	-.00050	.02960	.03960
.898	-2.000	-.11540	-.00480	.02370	-.00070	-.00090	.03110	.03530
.898	.000	-.11710	-.00340	.00000	.00110	-.00070	.03320	.03350
.898	2.000	-.11530	-.00500	-.02470	.00260	-.00050	.03240	.03470
.898	4.000	-.10800	-.00820	-.04650	.00230	-.00040	.02980	.03910
.898	6.000	-.10160	-.01170	-.06700	.00180	-.00040	.02730	.04310
.898	8.000	-.09550	-.01590	-.08990	.00090	-.00060	.02510	.04910
.898	10.000	-.08380	-.02020	-.11450	.00040	-.00080	.02400	.05050
GRADIENT		.00033	-.00007	-.01173	.00030	.00003	.00009	-.00009

RUN NO. 2140/ 0 RN/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.09340	-.02540	.13650	-.00510	-.00060	.06040	.03970
1.048	-8.000	-.10310	-.01870	.10820	-.00440	-.00060	.06200	.03690
1.048	-6.000	-.11110	-.01430	.08020	-.00370	-.00080	.06480	.03300
1.048	-4.000	-.11630	-.01050	.05210	-.00150	-.00080	.06800	.02950
1.048	-2.000	-.11910	-.00910	.02540	-.00060	-.00090	.06960	.02620
1.048	.000	-.11730	-.00780	.00100	.00120	-.00080	.06900	.02580
1.048	2.000	-.11280	-.00840	-.02700	.00250	-.00070	.06550	.02670
1.048	4.000	-.11000	-.00990	-.03250	.00450	-.00030	.06490	.02930
1.048	6.000	-.10720	-.01300	-.03600	.00560	-.00020	.06320	.03220
1.048	8.000	-.10070	-.01760	-.10580	.00670	-.00060	.05970	.03540
1.048	10.000	-.08930	-.02300	-.13430	.00920	-.00060	.06160	.04020
GRADIENT		.00094	.00003	-.01308	.00069	.00006	-.00047	.00011

NSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2)

(R93719) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 93. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CONF16 = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2139/ 0 RM/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.11110	-.03120	.15410	-.01130	-.00060	.07370	.05230
1.245	-8.000	-.11540	-.02750	.11270	-.00360	-.00060	.07920	.04900
1.245	-6.000	-.12110	-.02220	.07880	.00010	-.00070	.09010	.04120
1.245	-4.000	-.12660	-.01720	.05030	.00080	-.00080	.09190	.03930
1.245	-2.000	-.12900	-.01410	.02720	-.00030	-.00070	.09230	.03970
1.245	.000	-.12940	-.01260	.00140	-.00060	-.00090	.09200	.03940
1.245	2.000	-.12720	-.01390	-.02590	-.00010	-.00090	.09090	.04000
1.245	4.000	-.12470	-.01640	-.05120	.00090	-.00050	.07940	.04390
1.245	6.000	-.11980	-.02060	-.07980	.00130	-.00060	.07930	.04620
1.245	8.000	-.11410	-.02530	-.11520	.00690	-.00090	.07760	.04820
1.245	10.000	-.11590	-.02640	-.15690	.01460	-.00040	.07750	.05270
	GRADIENT	.00026	.00009	-.01290	-.00007	.00002	-.00031	.00052

RUN NO. 2089/ 0 RM/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.466	-10.000	-.13070	-.01010	.15700	-.01670	-.00090	.09000	.04330
1.466	-8.000	-.12560	-.01230	.11430	-.00920	-.00090	.09110	.04300
1.466	-6.000	-.12300	-.01240	.07990	-.00320	-.00050	.09190	.04040
1.466	-4.000	-.12170	-.01190	.04920	-.00040	-.00030	.09370	.03900
1.466	-2.000	-.12440	-.01070	.02230	.00000	-.00070	.09430	.03410
1.466	.000	-.12610	-.00920	-.00130	-.00120	-.00090	.09500	.03420
1.466	2.000	-.12860	-.00890	-.02770	-.00120	-.00090	.09490	.03550
1.466	4.000	-.12970	-.01040	-.05940	.00130	-.00060	.09400	.03950
1.466	6.000	-.13030	-.01090	-.09310	.00610	-.00060	.09340	.04130
1.466	8.000	-.13550	-.00930	-.13250	.01310	-.00090	.09270	.04320
1.466	10.000	-.14160	-.00700	-.17650	.02160	-.00050	.09170	.04650
	GRADIENT	-.00101	.00024	-.01326	.00011	-.00001	.00004	.00047



DATE 05 NOV 74

TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1131F)(T9)/(G3)/(S3/2)/(S3/2)

(R03T19) (21 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = -5.000 CCONF = 200.000
 DELTAZ = .140 RUDDER = .000
 X-SRS = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2086/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-10.000	-1.15620	.03240	.14410	-.00670	-.00060	.09000	.01520
2.990	-8.000	-1.15060	.02830	.10480	-.00020	-.00070	.08980	.01440
2.990	-6.000	-1.14960	.02760	.07170	.00310	-.00090	.08990	.01330
2.990	-4.000	-1.15030	.02760	.04310	.00330	-.00070	.09030	.01240
2.990	-2.000	-1.14950	.02730	.02100	.00200	-.00020	.09090	.01180
2.990	.000	-1.15040	.02670	-.00350	.00030	-.00020	.09140	.01140
2.990	2.000	-1.15030	.02700	-.02810	-.00130	-.00090	.09130	.01190
2.990	4.000	-1.15160	.02870	-.03420	-.00190	-.00070	.09140	.01300
2.990	6.000	-1.15550	.03070	-.08230	-.00060	-.00020	.09220	.01420
2.990	8.000	-1.15910	.03340	-.11360	.00240	-.00020	.09310	.01590
2.990	10.000	-1.16220	.03740	-.15050	.00760	-.00040	.09350	.01760
2.990	GRADIENT	-.00018	.00010	-.01238	-.00068	-.00003	.00011	.00007

RUN NO. 2087/ 0 RN/L = 6.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-1.14800	.03240	.14350	-.00600	-.00020	.08840	.01120
3.480	-8.000	-1.14120	.02920	.10780	-.00090	-.00060	.08840	.01100
3.480	-6.000	-1.13860	.02730	.07560	.00240	-.00030	.08990	.01030
3.480	-4.000	-1.13770	.02680	.04790	.00300	-.00030	.08790	.00970
3.480	-2.000	-1.13890	.02730	.02380	.00170	-.00030	.08840	.00920
3.480	.000	-1.13970	.02810	.00050	-.00140	-.00010	.08910	.00890
3.480	2.000	-1.14240	.02860	-.02350	-.00300	-.00030	.08930	.00930
3.480	4.000	-1.14810	.03040	-.04910	-.00330	-.00060	.08940	.00980
3.480	6.000	-1.11970	.02060	-.07730	-.00300	-.00030	.08910	.01060
3.480	8.000	-1.10390	.01610	-.10930	.00000	-.00030	.08940	.01180
3.480	10.000	-1.18300	.04820	-.14400	.00590	-.00080	.09010	.01330
3.480	GRADIENT	-.00121	.00043	-.01206	-.00096	-.00001	.00021	.00001

NSFC 570 (1A31F) (T9) (C3) / (S3/2) / (S3/2)

(R03T20) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFC = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2163/ 0 RIVL = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.996	-10.000	-.21520	.01530	.00290	-.00020	-.00010	.06300	.02940
.996	-9.000	-.19150	.01710	.00000	-.00100	-.00120	.05990	.03180
.996	-8.000	-.16500	.02450	.00310	.00060	-.00140	.03390	.03970
.996	-7.000	-.14070	.02050	.00580	.00100	-.00110	.04430	.03120
.996	-6.000	-.12400	.01950	-.00220	.00440	-.00100	.05090	.04590
.996	-5.000	-.10570	.02420	-.02910	.01310	-.00110	.05510	.03970
.996	-4.000	-.07750	.02990	.00360	.00170	-.00090	.05600	.03360
.996	-3.000	-.05970	.03770	.00230	-.00060	-.00230	.05750	.02280
.996	-2.000	-.03990	.04230	.00660	-.00120	-.00140	.06020	.02000
.996	-1.000	-.03950	.04650	.00110	-.00190	-.00140	.05330	.02290
.996	0.000	-.03290	.05000	-.00040	-.00200	-.00130	.04990	.02420
.996	1.000	.00440	.05590	.01290	-.00190	-.00070	.05340	.02000
.996	2.000	.03630	.05720	.00940	-.00050	-.00150	.04730	.02160
.996	3.000	.01030	.06276	.00093	-.00071	-.00006	.00097	-.00009

RUN NO. 2164/ 0 RIVL = 6.18 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.24880	.03000	-.00330	.00000	-.00110	.06270	.03410
.900	-9.000	-.22230	.03760	.00030	-.00050	-.00130	.05970	.03470
.900	-8.000	-.19660	.04280	.00050	.00100	-.00050	.05920	.03220
.900	-7.000	-.16830	.04560	-.00170	.00340	-.00010	.06190	.03990
.900	-6.000	-.17600	.04740	-.00330	.00490	-.00020	.05810	.03300
.900	-5.000	-.13950	.04740	-.01050	.00590	-.00110	.04350	.03440
.900	-4.000	-.10480	.04840	-.00740	.00260	-.00140	.04400	.03730
.900	-3.000	-.07240	.05120	-.01190	.00410	-.00090	.06040	.03550
.900	-2.000	-.05320	.05630	.00060	.00250	.00170	.05330	.03690
.900	-1.000	-.04390	.05910	-.00470	.00620	-.00020	.05670	.03750
.900	0.000	-.02980	.06020	-.00670	.00750	-.00160	.05790	.03670
.900	1.000	.01590	.05570	.00230	.00630	-.00090	.05100	.03050
.900	2.000	.03900	.06490	.01080	-.00020	-.00350	.04840	.02890
.900	3.000	.01497	.06123	.00096	.00093	.00006	-.00012	-.00007

WSFC 370 (1A31F) (T9) (U5) / (S3/2) / (S3/2)

(R03120) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTC = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTNC = -.300
 SPACER = .000 SPADTA = .000
 SPAGAP = .000

RUN NO. 2163/ 0 RM/L = 6.45 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-.26610	.02900	-.00090	-.00030	-.00140	.09530	.04140
1.048	-8.000	-.22520	.03120	.00070	-.00050	-.00130	.09360	.04130
1.048	-6.000	-.18900	.03640	.00450	-.00020	-.00120	.09740	.03870
1.048	-5.000	-.17230	.03820	.00400	-.00020	-.00100	.09340	.03720
1.048	-4.000	-.15850	.04940	.00220	-.00060	-.00110	.09260	.03630
1.048	-2.000	-.13330	.04630	.00150	-.00160	-.00130	.09510	.03420
1.048	.000	-.10280	.05260	.00840	-.00140	-.00110	.09560	.02960
1.048	2.000	-.07530	.05400	.00230	.00070	-.00210	.09720	.01940
1.048	4.000	-.04900	.05320	.00940	-.00160	-.00270	.09080	.02400
1.048	5.000	-.04370	.05610	.00260	-.00030	-.00200	.07910	.02490
1.048	6.000	-.02690	.05430	-.00030	-.00040	-.00160	.07900	.02390
1.048	8.000	.04950	.04040	.00680	-.00310	-.00220	.09460	.01570
1.048	10.000	.05810	.05000	.00350	-.00340	-.00390	.07400	.02060
GRADIENT		.01330	.00182	.00926	.00090	-.00014	-.00145	-.00159

RUN NO. 2162/ 0 RM/L = 6.59 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.27120	.02580	-.01010	.00290	-.00100	.10650	.03580
1.246	-8.000	-.24250	.03500	-.00230	.00040	-.00110	.11050	.05020
1.246	-6.000	-.20620	.04060	.00090	-.00040	-.00130	.10950	.04970
1.246	-5.000	-.18750	.04190	-.00370	.00200	-.00100	.10710	.05110
1.246	-4.000	-.17110	.04420	-.00480	.00170	-.00070	.10720	.05920
1.246	-2.000	-.14000	.05010	.00360	.00090	-.00040	.10950	.04740
1.246	.000	-.10700	.05600	.00190	.00370	-.00090	.10880	.04790
1.246	2.000	-.06130	.06380	.00780	.00080	-.00100	.10940	.04230
1.246	4.000	-.05720	.07220	.01110	-.00150	.00120	.11500	.03290
1.246	5.000	-.04710	.07400	.00620	-.00130	.00020	.10420	.03570
1.246	6.000	-.03410	.07470	.00370	-.00060	-.00060	.10210	.03810
1.246	8.000	.00170	.07490	.00880	.00190	-.00130	.09370	.03970
1.246	10.000	.04190	.07540	.01020	.00400	-.00130	.09820	.04180
GRADIENT		.01417	.00333	.00146	-.00031	.00014	.00041	-.00174

NSFC 370 (1A31F) (T9) (U5) / (C3) / (S3/2) / (S3/2)

(R03T20) (14 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 CONFIC = 201.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2190/ 0 RM/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.965	-10.000	-.30490	.04790	.00660	-.00190	-.00040	.12330	.02950
1.965	-8.000	-.24390	.04110	.00300	.00020	.00060	.12010	.03040
1.965	-6.000	-.19790	.03850	.00070	.00060	.00020	.11920	.03170
1.965	-5.000	-.17840	.03950	.00170	-.00030	.00070	.11810	.03180
1.965	-4.000	-.15850	.03940	.00300	-.00130	-.00120	.11950	.02940
1.965	-2.000	-.11970	.03960	.00400	-.00160	-.00090	.12200	.02360
1.965	.000	-.08640	.04330	.00130	-.00080	.00010	.12090	.02100
1.965	2.000	-.06660	.03390	-.00030	.00160	.00060	.11770	.02100
1.965	4.000	-.05230	.07620	.00850	.00000	.00020	.12800	.01920
1.965	5.000	-.04210	.07990	.00630	.00080	.00000	.13000	.01590
1.965	6.000	-.02780	.08260	.00490	.00090	-.00020	.13010	.01390
1.965	8.000	.01610	.08640	.00750	-.00260	-.00030	.12430	.01620
1.965	10.000	.06730	.09000	.00410	.00010	.00000	.11730	.02090
GRADIENT	.01347	.00420	.00040	.00040	.00020	.00011	.00094	-.00140

RUN NO. 2155/ 0 RM/L = 7.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	-.28090	.06440	.00630	-.00260	-.00020	.10980	.01230
3.480	-8.000	-.23860	.05480	-.00390	.00090	-.00060	.11110	.01030
3.480	-6.000	-.19050	.04430	-.00190	.00060	-.00140	.10590	.00930
3.480	-5.000	-.17350	.04290	-.00690	.00230	-.00140	.10600	.00900
3.480	-4.000	-.15210	.03990	-.00540	.00190	-.00100	.10550	.00890
3.480	-2.000	-.10670	.03260	.00160	.00020	-.00020	.10400	.00890
3.480	.000	-.07010	.02770	-.00090	.00170	-.00070	.10330	.00810
3.480	2.000	-.03300	.02360	-.00260	.00140	-.00070	.10310	.00640
3.480	4.000	.00400	.02180	.00090	-.00090	-.00070	.10130	.00530
3.480	5.000	.02100	.02170	.00260	-.00100	-.00010	.10190	.00530
3.490	6.000	.03910	.02090	.00360	-.00110	.00000	.10200	.00500
3.480	8.000	.07910	.01740	.00370	-.00160	-.00100	.10170	.00350
3.480	10.000	.12150	.01090	.00390	-.00200	-.00060	.10120	.00390
GRADIENT	.01938	.00218	.00071	.00071	.00029	.00007	-.00044	-.00042

MSFC 570 (1A31F) (19) (U5) / (03) / (03/2) / (03/2)

(R03T21) (14 SEP 73)

REFERENCE DATA

BREF = 0.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLC = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .300
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2173/ 0 RV/L = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.998	-10.000	-.22930	.02060	-.00760	.00260	-.00120	.05890	.02940
.998	-8.000	-.20420	.02330	-.00390	-.00040	-.00130	.06170	.02690
.998	-6.000	-.16980	.02870	.00290	-.00290	-.00140	.05590	.03310
.998	-5.000	-.15630	.02770	-.00070	.00120	-.00200	.05180	.04100
.998	-4.000	-.14030	.02700	-.00440	.00360	-.00190	.05090	.04370
.998	-2.000	-.10360	.02720	-.01060	.00430	-.00090	.05490	.03900
.998	.000	-.08230	.03230	-.00740	.00370	-.00160	.05390	.03610
.998	2.000	-.06830	.04020	.00320	-.00100	-.00090	.06190	.02140
.998	4.000	-.05110	.04590	.00130	-.00130	-.00100	.05940	.01970
.998	5.000	-.03780	.05000	.00800	-.00400	-.00090	.05970	.01560
.998	6.000	-.02430	.05270	.01040	-.00470	-.00030	.05720	.01890
.998	8.000	.00360	.05390	.00160	.00030	-.00160	.05200	.02090
.998	10.000	.02940	.05980	.00300	.00020	-.00090	.04940	.01990
GRADIENT	.01139	.00237	.00237	.00109	-.00062	.00011	.00092	-.00270

RUN NO. 2172/ 0 RV/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.26920	.03840	-.00470	.00280	-.00070	.06020	.05810
.902	-8.000	-.23610	.04350	-.00440	.00210	-.00100	.06330	.05330
.902	-6.000	-.21450	.05080	-.00370	.00320	-.00110	.06180	.05130
.902	-5.000	-.20330	.05350	-.00760	.00470	-.00110	.05940	.05250
.902	-4.000	-.18620	.05390	-.00690	.00410	-.00110	.05460	.05640
.902	-2.000	-.14740	.05390	-.00010	.00090	-.00100	.05280	.05750
.902	.000	-.12290	.06110	.00020	.00120	-.00090	.06090	.03940
.902	2.000	-.09400	.06250	-.00200	.00190	-.00080	.05690	.03740
.902	4.000	-.07030	.06620	.00350	.00140	-.00070	.05740	.03280
.902	5.000	-.05790	.06730	.00170	.00150	-.00080	.05660	.03320
.902	6.000	-.04500	.06890	.00090	.00150	-.00090	.05580	.03310
.902	8.000	-.01730	.07320	.00280	.00030	-.00070	.05330	.03190
.902	10.000	.01620	.07380	.01130	-.00190	-.00150	.05100	.02990
GRADIENT	.01442	.00150	.00094	.00094	-.00026	.00004	.00012	-.00237

(083721) (14 SEP 73)

MSFC 570 (1A31F) (T9) (U3) / (S3/2) / (S3/2)

REFERENCE DATA

SREF = 0.1990 SQ. IN XMRP = 2.5490 IN.
LREF = 9.3130 IN. YMRP = .0000 IN.
BREF = 9.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 COMFIC = 201.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2171/ 0 RIVL = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.047	-10.000	-.27080	.03570	.00060	.00000	-.00070	.09690	.04190
1.047	-8.000	-.23270	.03930	.00410	-.00090	-.00070	.09920	.03690
1.047	-6.000	-.20010	.04210	.00390	-.00020	-.00060	.09710	.03460
1.047	-5.000	-.18520	.04430	.00190	.00000	-.00100	.09520	.03390
1.047	-4.000	-.16910	.04600	.00120	-.00010	-.00100	.09350	.03340
1.047	-2.000	-.13680	.04970	.00150	.00000	-.00070	.09150	.03090
1.047	.000	-.10830	.05470	.00200	.00100	-.00070	.09170	.02390
1.047	2.000	-.09410	.05910	.00470	.00010	-.00080	.09070	.01910
1.047	4.000	-.06020	.06150	.00850	-.00090	-.00030	.09390	.01950
1.047	5.000	-.04370	.06160	.00590	-.00210	-.00090	.09240	.02120
1.047	6.000	-.03050	.06300	.00390	-.00290	-.00120	.09070	.02190
1.047	8.000	-.01520	.07090	.00740	-.00290	-.00090	.07970	.01920
1.047	10.000	.03950	.06470	.00650	-.00100	-.00050	.07990	.01920
GRADIENT		.01367	.00186	.00053	-.00015	.00003	-.00104	-.00160

RUN NO. 2170/ 0 RIVL = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.246	-10.000	-.28590	.03280	-.00770	.00230	-.00090	.10910	.05790
1.246	-8.000	-.24970	.03690	-.00560	.00130	-.00110	.11030	.05250
1.246	-6.000	-.21560	.04170	-.00300	.00090	-.00120	.11060	.04900
1.246	-5.000	-.19930	.04430	-.00380	.00110	-.00110	.10990	.04930
1.246	-4.000	-.18250	.04720	-.00240	.00070	-.00110	.10930	.04960
1.246	-2.000	-.15120	.05480	.00140	-.00030	-.00110	.10960	.04910
1.246	.000	-.12530	.06390	.00060	.00020	-.00070	.11120	.04410
1.246	2.000	-.10200	.07090	.00230	-.00040	-.00120	.11020	.04110
1.246	4.000	-.07620	.07950	.00570	-.00260	-.00040	.10950	.03770
1.246	5.000	-.06350	.08170	.00580	-.00260	-.00030	.10720	.03920
1.246	6.000	-.05020	.09460	.00590	-.00230	-.00100	.10490	.04050
1.246	8.000	-.02290	.09040	.00710	-.00050	-.00110	.10070	.04150
1.246	10.000	.02270	.09000	.00930	-.00100	-.00090	.09500	.03950
GRADIENT		.01336	.00332	.00091	-.00035	.00003	-.00013	-.00015



MSFC 570 (1A31F) (TS) (US) / (C3) / (S3/2) / (S3/2)

(R03721) (14 SEP 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5450 IN.
 LREF = 9.3130 IN. YMRP = .0000 IN.
 BREF = 9.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFIG = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2151/ 0 RVL = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.967	-10.000	-.30780	.05570	.00460	-.00010	-.00020	.12200	.03050
1.967	-8.000	-.25300	.04720	.00200	.00010	-.00030	.12060	.03010
1.967	-6.000	-.20670	.04230	.00080	-.00090	-.00090	.11950	.02950
1.967	-5.000	-.16520	.04200	.00180	-.00120	-.00040	.11990	.02970
1.967	-4.000	-.16410	.04220	.00320	-.00160	-.00020	.11940	.02790
1.967	-2.000	-.12480	.04380	.00480	-.00200	-.00030	.11900	.02390
1.967	.000	-.09350	.04870	.00440	-.00180	-.00080	.12240	.01950
1.967	2.000	-.07420	.06190	.00470	-.00160	-.00050	.12520	.01900
1.967	4.000	-.05600	.07590	.00500	-.00040	-.00040	.12790	.01660
1.967	5.000	-.03920	.07950	.00590	-.00120	-.00030	.12520	.01750
1.967	6.000	-.02090	.08220	.00690	-.00180	-.00030	.12340	.01720
1.967	8.000	.01990	.08490	.00940	-.00240	-.00060	.12450	.01270
1.967	10.000	.06010	.08490	.00970	-.00300	-.00020	.11940	.01590
GRADIENT		.01404	.00398	.00031	.00006	-.00002	.00091	-.00126

RUN NO. 2156/ 0 RVL = 6.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.27400	.05760	-.00210	.00120	-.00070	.10790	.00910
3.480	-8.000	-.23200	.05190	.00000	.00000	-.00060	.10740	.00930
3.480	-6.000	-.19450	.04870	.00000	-.00060	-.00060	.10920	.00710
3.480	-5.000	-.17390	.04540	-.00050	.00000	-.00020	.10740	.00710
3.480	-4.000	-.15290	.04220	.00010	.00000	-.00020	.10710	.00720
3.480	-2.000	-.11200	.03680	.00240	-.00020	-.00060	.10710	.00770
3.480	.000	-.07370	.03370	.00330	-.00010	-.00090	.10620	.00790
3.480	2.000	-.03660	.02890	.00330	.00020	-.00090	.10410	.00630
3.480	4.000	-.00840	.03010	.00000	.00000	-.00060	.10300	.00510
3.480	5.000	.01180	.02940	.00070	-.00090	-.00090	.10270	.00450
3.480	6.000	.03170	.02640	.00170	-.00150	-.00100	.10250	.00360
3.480	8.000	.06970	.02190	.00380	-.00230	-.00060	.10240	.00140
3.480	10.000	.11940	.01370	.00420	-.00300	-.00040	.10240	.00060
GRADIENT		.01941	-.00166	.00002	-.00004	-.00006	-.00051	-.00027

MSFC 570 (1A31F) (T9) (U5) / (C3) / (S3/2) / (S3/2)

(R03T22) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 GRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2181/ 0 RVL = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.590	-10.000	-.23320	.02390	-.00170	.00030	-.00100	.03460	.03260
.590	-8.000	-.20780	.02740	-.00090	-.00160	-.00110	.04270	.04430
.590	-6.000	-.18220	.03270	.00090	-.00290	-.00110	.03730	.02910
.590	-5.000	-.16140	.03110	-.00200	.00100	-.00130	.03190	.03940
.590	-4.000	-.14360	.03030	-.00410	.00290	-.00140	.04990	.04390
.590	-2.000	-.11480	.03020	-.00580	.00170	-.00130	.03340	.03910
.590	.000	-.08640	.03120	-.00730	-.00430	-.00100	.03990	.02870
.590	2.000	-.06620	.04130	.00710	-.00290	-.00100	.06130	.02310
.590	4.000	-.04780	.04630	.00710	-.00440	-.00090	.06990	.01960
.590	5.000	-.04050	.05060	.00790	-.00510	-.00090	.05930	.01720
.590	6.000	-.02960	.05380	.00790	-.00510	-.00130	.05470	.01590
.590	8.000	.00050	.05690	.00960	-.00410	-.00110	.05240	.01700
.590	10.000	.02370	.06300	.00960	-.00300	-.00110	.05240	.01420
.590	GRADIENT	.01205	.00204	.00121	-.00069	.00007	.00112	-.00257

RUN NO. 2180/ 0 RVL = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.27970	.04510	-.00410	.00320	-.00060	.06160	.03590
.899	-8.000	-.24900	.04980	-.00420	.00270	-.00070	.06450	.03090
.899	-6.000	-.22320	.05610	-.00640	.00370	-.00060	.06990	.03110
.899	-5.000	-.20950	.05910	-.00830	.00420	-.00090	.05630	.03000
.899	-4.000	-.19250	.06020	-.00560	.00270	-.00100	.05270	.03570
.899	-2.000	-.15770	.06120	.00350	-.00140	-.00090	.05250	.03450
.899	.000	-.13380	.06740	.00250	-.00060	-.00050	.06030	.03890
.899	2.000	-.10990	.07100	.00220	.00010	-.00070	.05620	.03810
.899	4.000	-.09420	.07390	.00140	.00120	-.00040	.05900	.03230
.899	5.000	-.07060	.07470	.00020	.00110	-.00050	.05660	.03310
.899	6.000	-.05790	.07640	.00000	.00090	-.00030	.05560	.03320
.899	8.000	-.03570	.08290	.00190	.00030	-.00070	.05450	.03180
.899	10.000	.00290	.08390	.01110	-.00290	-.00040	.05030	.03110
.899	GRADIENT	.01361	.00169	.00075	-.00021	.00005	.00033	-.00251



MSFC 570 (IA31F) (T9) (U3) / (C3) / (S3/2) / (S3/2)

(R03T22) (14 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CEBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2179/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.045	-10.000	-2.7840	.04070	.00160	-.00070	-.00090	.09630	.04050
1.045	-8.000	-2.24130	.04330	.00370	-.00100	-.00050	.09870	.03550
1.045	-6.000	-.20890	.04750	.00270	-.00020	-.00040	.09670	.03290
1.045	-5.000	-.19260	.05000	.00230	.00000	-.00080	.09510	.03290
1.045	-4.000	-.17530	.05180	.00240	.00010	-.00090	.09390	.03260
1.045	-2.000	-.14250	.05510	.00150	.00070	-.00040	.09260	.02970
1.045	.000	-.11700	.05950	-.00070	.00180	-.00080	.09310	.02290
1.045	2.000	-.09330	.06440	.00480	.00000	-.00040	.09190	.01920
1.045	4.000	-.07050	.06730	.00530	-.00110	.00000	.09330	.01910
1.045	5.000	-.05140	.06730	.00690	-.00290	-.00060	.09420	.01990
1.045	6.000	-.03620	.06940	.00780	-.00390	-.00100	.09130	.02060
1.045	8.000	-.03360	.08050	.00760	-.00290	-.00050	.07920	.01990
1.045	10.000	.02750	.07190	.00590	-.00120	-.00050	.09030	.01900
GRADIENT		.01360	.00186	.00046	-.00023	.00005	-.00047	-.00160

RUN NO. 2178/ 0 RN/L = 6.64 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.29710	.03830	-.00670	.00190	-.00090	.10910	.03920
1.250	-8.000	-.25640	.04020	-.00720	.00190	-.00080	.11110	.03340
1.250	-6.000	-.22130	.04450	-.00450	.00090	-.00080	.11090	.04870
1.250	-5.000	-.20550	.04770	-.00240	.00000	-.00090	.11080	.04700
1.250	-4.000	-.18910	.05150	-.00060	-.00060	-.00100	.11040	.04690
1.250	-2.000	-.15730	.05960	.00080	-.00110	-.00100	.11090	.04630
1.250	.000	-.13210	.06930	.00060	-.00160	-.00050	.11210	.04190
1.250	2.000	-.11320	.07690	.00150	-.00170	-.00090	.11080	.04090
1.250	4.000	-.09870	.08390	.00390	-.00300	-.00070	.10700	.04040
1.250	5.000	-.07540	.08800	.00590	-.00300	-.00070	.10750	.04020
1.250	6.000	-.06240	.09200	.00700	-.00290	-.00090	.10710	.04020
1.250	8.000	-.03910	.10070	.00600	-.00190	-.00070	.10340	.04110
1.250	10.000	.00610	.10070	.00720	-.00280	-.00050	.09910	.03940
GRADIENT		.01267	.00406	.00068	-.00029	.00003	-.00033	-.00091

MSFC 970(1A31F)(T9)(U3)/(S3/2)/(S3/2)

(R83T22) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 3.3130 IN. YMRP = .0000 IN.
BREF = 3.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 201.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2192/ 0 RN/L = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.980	-10.000	-.31780	.06430	.00390	.00000	-.00010	.12160	.03030
1.980	-8.000	-.26290	.05450	.00180	-.00030	-.00090	.12120	.02990
1.980	-6.000	-.21650	.05100	.00130	-.00140	-.00090	.12020	.02690
1.980	-5.000	-.19320	.05160	.00130	-.00110	-.00030	.11950	.02630
1.980	-4.000	-.17340	.05080	.00190	-.00140	-.00010	.11990	.02540
1.980	-2.000	-.13250	.04990	.00390	-.00230	-.00040	.12010	.02160
1.980	.000	-.10120	.05570	.00350	-.00250	-.00090	.12410	.01620
1.980	2.000	-.08080	.06350	.00360	-.00260	-.00040	.12730	.01630
1.980	4.000	-.06120	.09120	.00440	-.00120	-.00030	.1240	.01730
1.980	5.000	-.04440	.09500	.00670	-.00260	-.00040	.1240	.01740
1.980	6.000	-.02660	.09810	.00950	-.00340	-.00030	.1280	.01400
1.980	8.000	.00980	.09270	.00930	-.00240	-.00030	.11990	.01690
1.980	10.000	.04950	.09270	.00960	-.00370	-.00070	.00094	-.00101
	GRADIENT	.01451	.00362	.00045	-.00004	-.00002		

RUN NO. 2157/ 0 RN/L = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.28150	.06190	.00640	-.00220	-.00090	.10940	.00840
3.480	-8.000	-.24080	.05930	.00200	-.00110	-.00060	.10940	.00560
3.480	-6.000	-.20410	.05650	.00040	-.00040	-.00030	.11100	.00790
3.480	-5.000	-.19210	.05230	-.00090	.00070	-.00020	.10960	.00810
3.480	-4.000	-.16060	.04830	-.00160	.00120	-.00020	.10970	.00790
3.480	-2.000	-.11830	.04160	-.00170	.00100	-.00030	.10750	.00750
3.480	.000	-.07800	.03680	-.00240	.00150	-.00070	.10660	.00770
3.480	2.000	-.04380	.03520	-.00010	.00070	-.00060	.10630	.00370
3.480	4.000	-.01710	.03630	-.00020	.00020	-.00050	.10410	.00420
3.480	5.000	.00340	.03550	.00290	-.00130	-.00080	.10410	.00330
3.480	6.000	.02440	.03370	.00320	-.00230	-.00080	.10410	.00250
3.480	8.000	.06800	.02640	.00670	-.00370	-.00060	.10400	.00100
3.480	10.000	.11180	.01930	.00690	-.00410	-.00050	.10390	.00000
	GRADIENT	.01829	-.00161	.00030	-.00016	-.00004	-.00054	-.00047

MSFC 570 (1A31F) (T9) (U3) / (G3) / (S3/2) / (S3/2)

(R03123) (14 SEP 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 201.000
DELTAZ = .290 RUDDER = .000
X-SRB = .000 CRINC = -.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2166/ 0 RWL = 4.90 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.20780	.00910	.00000	-.00100	.00000	.06200	.02930
.598	-8.000	-.17850	.01280	.00210	-.00270	.00000	.05730	.03320
.598	-6.000	-.13510	.01600	-.00090	-.00260	.00000	.05350	.03450
.598	-5.000	-.12910	.01170	-.00700	.00220	.00010	.05220	.03910
.598	-4.000	-.11000	.01030	-.01100	.00510	.00000	.05110	.04090
.598	-2.000	-.09670	.01440	-.01290	.00590	-.00090	.05400	.03920
.598	.000	-.06020	.01900	-.00650	.00390	-.00060	.05490	.03370
.598	2.000	-.04350	.02980	.00090	.00010	-.00010	.05320	.02610
.598	4.000	-.02640	.03710	.00090	.00010	-.00010	.05270	.02590
.598	5.000	-.00990	.03680	.00010	.00020	.00000	.05350	.02240
.598	6.000	.00490	.03700	-.00090	.00010	.00000	.05340	.02050
.598	8.000	.03150	.03920	-.00240	-.00060	-.00060	.05210	.01900
.598	10.000	.05590	.04690	-.00340	.00150	-.00020	.04590	.01990
GRADIENT	.01129	.00293	.00212	.00123	-.00046	.00001	.00017	-.00190

RUN NO. 2167/ 0 RWL = 6.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.25130	.02910	-.00700	.00040	-.00050	.06320	.03690
.902	-8.000	-.22530	.03610	-.00440	.00000	-.00010	.06390	.03310
.902	-6.000	-.18500	.03670	-.00300	.00020	.00000	.06230	.03160
.902	-5.000	-.15200	.03150	-.00430	.00150	-.00030	.05970	.03390
.902	-4.000	-.13920	.03340	-.00590	.00260	-.00040	.05340	.03600
.902	-2.000	-.13650	.04530	-.00920	.00400	-.00050	.05000	.06020
.902	.000	-.10310	.04680	-.00720	.00250	-.00060	.05130	.03770
.902	2.000	-.07330	.04970	-.00340	.00130	-.00050	.06250	.03610
.902	4.000	-.04700	.05110	-.00400	.00150	.00030	.05570	.03560
.902	5.000	-.03660	.05360	-.00560	.00280	-.00020	.05590	.03720
.902	6.000	-.02330	.05540	-.00580	.00320	-.00060	.05310	.03690
.902	8.000	.01380	.05490	.00020	-.00040	-.00020	.03210	.02910
.902	10.000	.04020	.06050	.00070	.00030	-.00040	.04680	.02980
GRADIENT	.01191	.00212	.00014	.00014	-.00005	.00004	.00018	-.00236

MSFC 570 (1A31F) (T9) (U5) / (Q3) / (S3/8) / (S3/2)

(R83723) (14 SEP 73)

REFERENCE DATA

BREF = 6.1990 SQ. IN XMRP = 8.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF16 = 201.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 ORBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2188/ 0 RM/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.049	-10.000	-.26020	.02820	.00030	-.00040	-.00040	.09940	.04480
1.049	-9.000	-.22490	.03060	.00090	-.00110	-.00030	.09910	.04120
1.049	-8.000	-.18750	.03460	.00330	-.00110	-.00030	.09830	.03800
1.049	-7.000	-.16960	.03700	.00470	-.00110	-.00020	.09910	.03610
1.049	-6.000	-.15430	.03910	.00390	-.00080	-.00020	.09660	.03350
1.049	-5.000	-.12740	.04380	.00150	-.00090	-.00030	.09290	.03350
1.049	-4.000	-.09800	.04820	.00430	-.00170	-.00040	.09180	.02850
1.049	-3.000	-.06870	.04930	.00110	.00000	-.00060	.09200	.02150
1.049	-2.000	-.04040	.05060	.00750	-.00290	-.00080	.09380	.02370
1.049	-1.000	-.03050	.05250	.00480	-.00220	-.00030	.08260	.02220
1.049	0.000	-.01410	.05200	.00350	-.00200	-.00040	.08210	.02030
1.049	1.000	.04300	.04190	.00370	-.00330	-.00070	.09400	.01610
1.049	2.000	.06140	.04810	.00550	-.00380	-.00030	.07660	.01730
GRADIENT	.01409	.00147	.00016	.00013	-.00013	-.00003	-.00151	-.00156

RUN NO. 2189/ 0 RM/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.253	-10.000	-.26400	.01950	-.00090	-.00170	-.00020	.10920	.05310
1.253	-9.000	-.22730	.02390	-.00060	-.00140	-.00020	.11210	.04900
1.253	-8.000	-.19410	.03040	.00310	-.00250	-.00030	.11250	.04570
1.253	-7.000	-.17740	.03560	.00540	-.00310	-.00040	.11130	.04820
1.253	-6.000	-.16060	.03660	.00330	-.00240	-.00030	.11110	.04370
1.253	-5.000	-.12840	.04260	-.00110	-.00040	-.00020	.11200	.04310
1.253	-4.000	-.09950	.04990	.00010	.00090	-.00030	.11170	.04120
1.253	-3.000	-.07560	.05920	.00140	.00030	-.00010	.11130	.03910
1.253	-2.000	-.05180	.06750	.00670	-.00230	.00070	.11200	.03420
1.253	-1.000	-.04170	.07090	.00430	-.00160	.00040	.10760	.03460
1.253	0.000	-.02850	.07300	.00320	-.00110	.00000	.10360	.03500
1.253	1.000	.00900	.07440	.00710	-.00060	-.00040	.09830	.03410
1.253	2.000	.04620	.07740	.00760	.00000	-.00050	.09330	.03510
GRADIENT	.01355	.00381	.00015	.00015	.00010	.00000	-.00015	-.00127



MSFC 570(1A31F)(T9)(U5)/(G3)/(S3/2)/(S3/2)

(R03123) (14 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 201.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2153/ 0 RVL = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.965	-10.000	-.29090	.04100	.00100	-.00010	-.00040	.12470	.02590
1.965	-8.000	-.22800	.03240	.00150	.00000	.00000	.12030	.02430
1.965	-6.000	-.17990	.02780	.00150	-.00030	.00010	.11950	.02410
1.965	-5.000	-.15940	.02700	.00050	-.00040	-.00010	.11970	.02370
1.965	-4.000	-.13780	.02580	.00040	-.00070	-.00050	.12030	.02240
1.965	-2.000	-.09610	.02590	.00150	-.00170	-.00060	.12140	.01860
1.965	.000	-.06330	.03120	.00220	-.00150	.00000	.12180	.01590
1.965	2.000	-.04050	.03970	.00170	-.00050	-.00060	.12230	.01230
1.965	4.000	-.01930	.05570	.00610	-.00160	.00010	.12940	.01090
1.965	5.000	-.00430	.05830	.00510	-.00120	.00000	.12850	.00910
1.965	6.000	.01220	.06060	.00470	-.00120	.00000	.12740	.00800
1.965	8.000	.05070	.06560	.00740	-.00290	-.00020	.12500	.00590
1.965	10.000	.09480	.06500	.01250	-.00430	-.00010	.12190	.01030
GRADIENT		.01312	.00337	.00051	-.00006	.00003	.00091	-.00146

RUN NO. 2156/ 0 RVL = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.26790	.05460	.00120	.00040	-.00050	.10870	.01010
3.480	-8.000	-.22340	.04460	-.00480	.00250	.00000	.10810	.00870
3.480	-6.000	-.17730	.03630	-.00250	.00220	-.00050	.10640	.00710
3.480	-5.000	-.15370	.03310	-.00120	.00160	-.00000	.10640	.00690
3.480	-4.000	-.13450	.03000	-.00090	.00130	-.00060	.10590	.00660
3.480	-2.000	-.09470	.02460	-.00210	.00170	.00000	.10460	.00660
3.480	.000	-.05630	.02030	.00000	.00120	-.00050	.10420	.00620
3.480	2.000	-.02090	.01780	-.00240	.00180	-.00060	.10360	.00400
3.480	4.000	.01430	.01790	.00100	.00070	-.00050	.10280	.00410
3.480	5.000	.03020	.01740	.00120	.00030	-.00070	.10250	.00290
3.480	6.000	.04770	.01620	.00000	.00000	-.00070	.10240	.00190
3.480	8.000	.08770	.01190	.00160	-.00020	-.00010	.10310	.00030
3.480	10.000	.12990	.00870	.00390	-.00070	-.00020	.10460	.00050
GRADIENT		.01858	-.00156	.00021	-.00010	-.00000	-.00036	-.00039

MSFC 370 (1A31F) (T9) (U5) / (G3) / (S3/2) / (S3/2)

(R03724) (14 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

BETA = .000 CONFIC = 201.000
DELTAZ = .280 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2174/ 0 RN/L = 4.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.589	-10.000	-.21770	.01390	-.00370	.00250	-.00030	.06060	.02750
.589	-8.000	-.19440	.01900	-.00020	-.00030	-.00090	.05950	.02770
.589	-6.000	-.16420	.02370	.00040	-.00030	-.00070	.04970	.03670
.589	-5.000	-.14110	.02020	-.00400	.00260	-.00100	.04940	.04200
.589	-4.000	-.12260	.01870	-.00700	.00460	-.00110	.05010	.04320
.589	-2.000	-.09630	.02120	-.00900	.00530	-.00090	.03360	.03560
.589	.000	-.07240	.02730	-.00820	.00520	-.00110	.03370	.03320
.589	2.000	-.06080	.03700	-.00350	.00160	-.00090	.03500	.02370
.589	4.000	-.03940	.04400	.00050	-.00070	-.00070	.03590	.01890
.589	5.000	-.02760	.04690	.00340	-.00140	-.00090	.03520	.01840
.589	6.000	-.01380	.04850	.00500	-.00160	-.00100	.03410	.01900
.589	8.000	.02020	.04870	.00410	-.00060	-.00070	.03050	.01720
.589	10.000	.03960	.05480	-.00230	.00220	-.00060	.04900	.01940
GRADIENT		.01079	.00295	.00087	-.00055	.00002	.00063	-.00264

RUN NO. 2175/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.26140	.03480	-.00580	.00170	-.00090	.06150	.05690
.902	-8.000	-.23120	.03980	-.00280	.00080	-.00080	.06190	.03330
.902	-6.000	-.20090	.04470	-.00400	.00180	-.00080	.06160	.03030
.902	-5.000	-.18510	.04590	-.00390	.00290	-.00070	.06100	.04880
.902	-4.000	-.17000	.04680	-.00450	.00320	-.00070	.05750	.03200
.902	-2.000	-.14940	.04940	-.00510	.00300	-.00080	.05100	.03450
.902	.000	-.11100	.05380	-.00260	.00210	-.00090	.05590	.04790
.902	2.000	-.08380	.05690	-.00300	.00230	-.00050	.05490	.03710
.902	4.000	-.05900	.05920	-.00080	.00170	-.00060	.05650	.03370
.902	5.000	-.04590	.06070	-.00090	.00190	-.00080	.05550	.03360
.902	6.000	-.03180	.06220	-.00020	.00160	-.00090	.05420	.03300
.902	8.000	.00000	.06460	.00390	-.00040	-.00050	.05010	.03090
.902	10.000	.02960	.06750	.00490	-.00050	-.00090	.04490	.02910
GRADIENT		.01392	.00154	.00039	-.00014	.00003	-.00018	-.00213

(R83T24) (14 SEP 73)

(R83T24) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF = 201.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2176/ 0 RN/L = 6.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-26520	.03310	.00010	.00040	-.00060	.09680	.04370
1.050	-8.000	-22810	.03370	.00100	.00000	-.00060	.09750	.03980
1.050	-6.000	-19280	.03990	.00140	-.00020	-.00060	.09760	.03610
1.050	-4.000	-17640	.04140	.00170	-.00070	-.00090	.09690	.03490
1.050	-2.000	-16070	.04320	.00190	-.00070	-.00090	.09570	.03430
1.050	0.000	-13120	.04750	.00210	-.00020	-.00080	.09360	.03220
1.050	2.000	-10320	.05200	.00180	.00020	-.00070	.09290	.02970
1.050	4.000	-.07360	.05480	.00210	.00060	-.00090	.09090	.02030
1.050	6.000	-.03750	.05920	.00330	-.00160	-.00090	.09400	.02060
1.050	8.000	-.02270	.06020	.00320	-.00190	-.00080	.09200	.02030
1.050	10.000	.00860	.06220	.00690	-.00160	-.00070	.09090	.01690
1.050	GRADIENT	.01379	.00181	.00036	-.00005	.00001	-.00117	-.00169

RUN NO. 2177/ 0 RN/L = 6.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.243	-10.000	-27390	.02510	-.00430	.00030	-.00080	.10710	.03930
1.243	-8.000	-23770	.02970	-.00280	.00010	-.00080	.10860	.03360
1.243	-6.000	-20310	.03560	-.00010	-.00020	-.00090	.10960	.03030
1.243	-4.000	-18590	.03890	-.00040	.00010	-.00090	.10950	.04970
1.243	-2.000	-16920	.04170	.00000	-.00010	-.00090	.10960	.04860
1.243	0.000	-13830	.04900	.00100	-.00060	-.00090	.11000	.04610
1.243	2.000	-.11110	.05700	.00030	.00080	-.00070	.11050	.04360
1.243	4.000	-.06130	.06330	.00150	.00030	-.00090	.10950	.04010
1.243	6.000	-.03060	.07350	.00600	-.00230	-.00030	.11030	.03900
1.243	8.000	-.03770	.07720	.00400	-.00210	-.00060	.10740	.03540
1.243	10.000	.00540	.08450	.00530	-.00110	-.00090	.10450	.03570
1.243	GRADIENT	.01345	.00393	.00056	-.00021	.00024	-.00010	-.00153

MSFC 570 (1A31F) (T9) (U3) / (S3/2) / (S3/2)

(R03124) (14 SEP 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XWRP = 2.5490 IN.
LREF = 5.3130 IN. YWRP = .0000 IN.
BREF = 5.3130 IN. ZWRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COMFIC = 201.000
DELTAZ = .290 RUDDER = .000
X-SER = .000 CF3INC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2194/ 0 RN/L = 6.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.968	-10.000	-.26870	.04430	.00310	-.00090	-.00030	.12190	.02370
1.968	-8.000	-.23420	.03710	.00180	-.00030	-.00030	.12090	.02270
1.968	-6.000	-.19000	.03430	.00150	-.00030	-.00060	.12040	.02270
1.968	-5.000	-.16860	.03330	.00130	-.00070	-.00060	.12040	.02220
1.968	-4.000	-.14660	.03270	.00210	-.00120	-.00050	.12190	.02370
1.968	-2.000	-.10160	.03370	.00390	-.00210	-.00020	.12260	.01650
1.968	.000	-.07320	.03890	.00350	-.00170	-.00020	.12430	.01300
1.968	2.000	-.04940	.04950	.00450	-.00160	-.00030	.12660	.01010
1.968	4.000	-.02950	.06190	.00450	-.00150	-.00040	.12990	.00990
1.968	5.000	-.01600	.06630	.00440	-.00150	-.00040	.12990	.00790
1.968	6.000	-.00010	.06990	.00500	-.00170	-.00040	.13010	.00660
1.968	8.000	.03900	.07490	.00990	-.00320	-.00040	.12720	.00730
1.968	10.000	.06240	.07410	.01030	-.00360	-.00030	.12160	.01030
GRADIENT		.01493	.00346	.00025	-.00005	.00000	.00000	-.00143

RUN NO. 2199/ 0 RN/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.26830	.05340	-.00190	.00190	-.00040	.10930	.00890
3.480	-8.000	-.22530	.04700	-.00340	.00220	-.00070	.10730	.00810
3.480	-6.000	-.17960	.04030	-.00090	.00090	-.00070	.10660	.00640
3.480	-5.000	-.15920	.03710	-.00200	.00140	-.00030	.10620	.00580
3.480	-4.000	-.13910	.03420	-.00170	.00190	-.00030	.10600	.00560
3.480	-2.000	-.09960	.02940	.00000	.00140	-.00070	.10600	.00590
3.480	.000	-.06020	.02470	.00280	.00150	-.00060	.10470	.00560
3.480	2.000	-.02600	.02200	-.00300	.00190	-.00070	.10470	.00330
3.480	4.000	.00880	.02100	.00090	.00070	-.00060	.10470	.00290
3.480	5.000	.02480	.02280	.00250	-.00020	-.00040	.10490	.00230
3.480	6.000	.04240	.02320	.00360	-.00090	-.00040	.10510	.00150
3.480	8.000	.08360	.01980	.00400	-.00090	-.00030	.10640	-.00010
3.480	10.000	.12550	.01560	.00430	-.00100	-.00010	.10790	-.00020
GRADIENT		.01643	-.00155	.00030	-.00012	.00000	-.00016	-.00037



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31P) (TS) (US) / (CS) / (S3/2) / (S3/2)

(R03T85) (14 SEP 73)

REFERENCE DATA

BREF = 6.1980 80. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 201.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2182/ 0 RN/L = 4.90 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.595	-10.000	-.22680	.01940	-.00640	.00260	-.00110	.03920	.02620
.595	-8.000	-.19830	.02350	-.00660	.00270	-.00050	.03410	.03220
.595	-6.000	-.16710	.02340	-.00650	.00360	-.00110	.04700	.04160
.595	-4.000	-.14710	.02200	-.00950	.00470	-.00130	.04860	.04200
.595	-2.000	-.12980	.02210	-.01030	.00510	-.00130	.03050	.04090
.595	0.000	-.10190	.02380	-.00800	.00460	-.00090	.03420	.03560
.595	2.000	-.07770	.03120	-.00750	.00470	-.00050	.03460	.03130
.595	4.000	-.04460	.04470	-.00240	-.00020	-.00100	.03750	.01910
.595	6.000	-.03180	.04840	.00340	-.00230	-.00070	.03710	.01640
.595	8.000	-.01810	.05120	.00570	-.00290	-.00050	.03580	.01570
.595	10.000	.03610	.05880	.00000	.00100	-.00040	.03040	.01750
GRADIENT		.01107	.00276	.00117	-.00069	.00006	.00092	-.00270

RUN NO. 2183/ 0 RN/L = 6.25 GRADIENT INTERVAL = -3.00/ 3.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.906	-10.000	-.26920	.04080	-.00370	.00230	-.00070	.06120	.03570
.906	-8.000	-.23820	.04510	-.00420	.00210	-.00060	.06320	.03140
.906	-6.000	-.20980	.05030	-.00620	.00330	-.00070	.06200	.04920
.906	-4.000	-.19790	.05310	-.00660	.00410	-.00090	.03960	.04910
.906	-2.000	-.18250	.05420	-.00600	.00370	-.00090	.03590	.05230
.906	0.000	-.14790	.05520	-.00250	.00160	-.00070	.03170	.05670
.906	2.000	-.12020	.06020	.00000	.00090	-.00060	.03780	.04450
.906	4.000	-.09390	.06320	.00200	.00180	-.00060	.03790	.03690
.906	6.000	-.06910	.06640	.00040	.00130	-.00070	.03610	.03330
.906	8.000	-.05410	.06700	.00190	.00030	-.00060	.03590	.03210
.906	10.000	.03940	.06810	.00290	-.00020	-.00060	.03490	.03110
GRADIENT		.01130	.07200	.00420	-.00040	-.00040	.03150	.03000
		.02210	.07310	.00460	-.00050	-.00050	.03030	.02920
		.01423	.00149	.00077	-.00031	.00003	-.00006	-.00223

MSFC 570 (1A31F) (T9) (U5) / (Q3) / (S3/2) / (S3/2)

(R83T25) (14 SEP 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 201.000
DELTAZ = .280 RUDDER = .000
X-SRB = .000 CRBINC = 1.500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2184/ 0 RN/L = 6.53 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.052	-10.000	-.27190	.03760	.00010	-.00010	-.00080	.09710	.04360
1.052	-8.000	-.23480	.04050	.00170	-.00030	-.00070	.09790	.03950
1.052	-6.000	-.19900	.04430	.00120	-.00010	-.00060	.09730	.03640
1.052	-5.000	-.18350	.04610	.00060	-.00010	-.00080	.09630	.03550
1.052	-4.000	-.16750	.04800	.00070	-.00010	-.00090	.09540	.03470
1.052	-2.000	-.13620	.05190	.00110	-.00010	-.00070	.09410	.03190
1.052	.000	-.10840	.05570	.00010	-.00060	-.00070	.09300	.02990
1.052	2.000	-.08140	.05900	.00220	.00070	-.00060	.09140	.02100
1.052	4.000	-.05940	.06270	.00430	-.00050	-.00040	.08790	.01920
1.052	5.000	-.04250	.06340	.00470	-.00160	-.00070	.08500	.01930
1.052	6.000	-.02810	.06480	.00510	-.00210	-.00090	.08270	.01890
1.052	8.000	-.00590	.07060	.00620	-.00190	-.00060	.08010	.01660
1.052	10.000	.04370	.06630	.00520	-.00030	-.00050	.07930	.01400
GRADIENT		.01390	.00177	.00041	-.00009	.00003	-.00102	-.00193

RUN NO. 2185/ 0 RN/L = 6.63 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.27950	.02940	-.00320	.00110	-.00090	.10720	.05790
1.248	-8.000	-.24140	.03300	-.00370	.00070	-.00070	.10950	.05340
1.248	-6.000	-.20910	.03960	-.00170	.00030	-.00070	.10940	.04940
1.248	-5.000	-.19220	.04300	-.00170	.00030	-.00090	.10970	.04790
1.248	-4.000	-.17550	.04650	-.00040	-.00020	-.00100	.10990	.04700
1.248	-2.000	-.14460	.05390	.00110	-.00090	-.00090	.11020	.04500
1.248	.000	-.11930	.06250	-.00070	-.00010	-.00060	.11070	.04150
1.248	2.000	-.09740	.07120	.00100	-.00030	-.00030	.11090	.03850
1.248	4.000	-.07230	.07880	.00370	-.00230	-.00080	.10950	.03620
1.248	5.000	-.06000	.08290	.00390	-.00210	-.00090	.10720	.03540
1.248	6.000	-.04660	.08660	.00420	-.00190	-.00090	.10560	.03490
1.248	8.000	-.01700	.09290	.00500	-.00170	-.00090	.10190	.03390
1.248	10.000	.02470	.09330	.00840	-.00330	-.00050	.09940	.03130
GRADIENT		.01298	.00404	.00049	-.00021	.00001	-.00020	-.00133



MSFC 570 (1A31F) (T9) (U5) / (G3) / (S3/2) / (S3/2)

(R03T25) (14 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 201.000
 DELTAZ = .250 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2193/ 0 RV/L = 7.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.979	-10.000	-.29730	.05130	.00280	-.00030	-.00020	.12160	.02280
1.979	-6.000	-.24170	.04180	.00170	-.00060	-.00030	.12150	.02030
1.979	-6.000	-.19480	.03760	.00090	-.00100	-.00090	.12030	.01940
1.979	-5.000	-.17180	.03670	.00120	-.00110	-.00060	.12020	.01890
1.979	-4.000	-.15110	.03670	.00180	-.00160	-.00040	.12040	.01780
1.979	-2.000	-.11380	.03910	.00290	-.00230	-.00040	.12200	.01450
1.979	.000	-.08020	.04410	.00380	-.00190	-.00060	.12440	.01090
1.979	2.000	-.03610	.05370	.00470	-.00200	-.00030	.12720	.00730
1.979	4.000	-.03300	.06580	.00470	-.00160	-.00030	.12660	.00660
1.979	5.000	-.01810	.06990	.00460	-.00140	-.00060	.12770	.00590
1.979	6.000	-.00140	.07310	.00320	-.00150	-.00070	.12670	.00530
1.979	8.000	.03680	.07750	.00920	-.00290	-.00030	.12300	.00410
1.979	10.000	.08010	.07750	.00900	-.00300	-.00040	.12030	.00660
GRADIENT		.01507	.00346	.00036	-.00001	-.00001	.00090	-.00139

RUN NO. 2160/ 0 RV/L = 7.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.27290	.05910	-.00020	.00090	-.00060	.11030	.00770
3.480	-6.000	-.23000	.05220	-.00240	.00160	-.00090	.10990	.00720
3.480	-6.000	-.18730	.04590	-.00230	.00130	-.00070	.10900	.00330
3.480	-5.000	-.16630	.04240	-.00340	.00180	-.00060	.10320	.00300
3.480	-4.000	-.14610	.03930	-.00330	.00190	-.00070	.10770	.00490
3.480	-2.000	-.10620	.03420	-.00180	.00140	-.00090	.10700	.00300
3.480	.000	-.06400	.03080	.00000	.00090	-.00030	.10690	.00470
3.480	2.000	-.02900	.02670	.00190	.00010	-.00070	.10690	.00230
3.480	4.000	.00730	.02480	.00170	.00030	-.00010	.10580	.00220
3.480	5.000	.02090	.02770	.00240	-.00070	-.00030	.10610	.00140
3.480	6.000	.03690	.02560	.00300	-.00130	-.00040	.10670	.00060
3.480	8.000	.07860	.02350	.00400	-.00120	-.00030	.10670	-.00130
3.480	10.000	.11540	.02210	.00500	-.00220	-.00040	.11030	-.00110
GRADIENT		.01894	-.00163	.00064	-.00024	.00005	-.00021	-.00037

MSFC 570 (A31F) (T9) (U3) / (C3) / (S3/2) / (S3/2)

(R03726) (14 SEP 73)

REFERENCE DATA

XREF =	6.1900 SQ. IN	XMRP =	2.4900 IN.
YREF =	5.3130 IN.	YMRP =	.0000 IN.
ZREF =	5.3130 IN.	ZMRP =	.0000 IN.
SCALE =	.0040		

PARAMETRIC DATA

ALPHA =	.000	CONFIG =	201.000
DELTAZ =	.140	RUDDER =	.000
X-SRB =	.000	CFBINC =	.500
SFACER =	.000	SPADIA =	.000
SFACAP =	.000		

RUN NO. 2169/ 0 RM/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.03500	.02300	.10060	.00240	-.00090	.04810	.04170
.598	-6.000	-.07070	.02760	.08160	-.00060	-.00070	.03110	.03610
.598	-6.000	-.07470	.03210	.06270	-.00100	-.00050	.02910	.03210
.598	-4.000	-.07320	.02810	.03290	.00470	-.00090	.05390	.03360
.598	-2.000	-.07960	.03070	.01880	.00190	-.00090	.03760	.03220
.598	.000	-.06390	.03320	-.00690	.00430	-.00100	.05390	.03630
.598	2.000	-.08090	.03490	-.02220	.00360	-.00060	.03710	.03960
.598	4.000	-.07650	.03270	-.03810	-.00190	-.00120	.05400	.03960
.598	6.000	-.07350	.02930	-.06350	-.00030	-.00130	.03320	.03990
.598	8.000	-.06140	.02610	-.09350	-.00040	-.00040	.04990	.04420
.598	10.000	-.05650	.02300	-.10900	.00070	-.00120	.04760	.04900
GRADIENT			.00067	-.00914	-.00094	-.00002	-.00915	.00984

RUN NO. 2188/ 0 RV/L = 6.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.09150	.04570	.12960	-.00810	-.00020	.04730	.05940
.901	-8.000	-.10170	.05140	.10240	-.00740	-.00030	.05560	.04320
.901	-6.000	-.10910	.05590	.08990	-.00370	-.00040	.05520	.04410
.901	-4.000	-.11640	.06020	.04990	-.00230	.00000	.06160	.05820
.901	-2.000	-.12420	.06310	.02170	.00020	-.00060	.06070	.03590
.901	.000	-.11890	.06190	.00200	.00000	-.00040	.05540	.03290
.901	2.000	-.12720	.06340	-.02620	.00390	-.00070	.05590	.04740
.901	4.000	-.12650	.06320	-.04770	.00430	-.00050	.06060	.04220
.901	6.000	-.11340	.05590	-.06660	.00070	-.00090	.03390	.03900
.901	8.000	-.10640	.05110	-.09260	.00060	-.00090	.05690	.03510
.901	10.000	-.09960	.04850	-.12130	.00210	-.00100	.05460	.03930
	GRADIENT	-.00116	.00032	-.01203	.00084	-.00006	-.00034	-.00113



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T9) (U5) / (C3) / (S3/2) / (S3/2)

(R03T26) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONF10 = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRB1NC = .500
 SPACER = .000 SPAD1A = .000
 SPAGAP = .000

RUN NO. 2187/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.034	-10.000	-.08470	.04130	.14880	-.01870	.00010	.08970	.03460
1.034	-8.000	-.09230	.04430	.11240	-.01240	.00000	.09320	.03050
1.034	-6.000	-.09740	.04720	.08150	-.00930	.00000	.09490	.02310
1.034	-4.000	-.10540	.05080	.05420	-.00720	.00000	.09390	.02310
1.034	-2.000	-.10980	.05240	.02880	-.00440	-.00030	.09300	.02500
1.034	.000	-.10800	.05310	.00180	-.00030	-.00040	.09350	.02840
1.034	2.000	-.10950	.05380	-.02950	.00330	-.00080	.09220	.03090
1.034	4.000	-.10820	.05280	-.03390	.00730	-.00090	.09300	.03360
1.034	6.000	-.10240	.04800	-.08210	.00850	-.00290	.09400	.03240
1.034	8.000	-.09400	.04330	-.10670	.00770	-.00080	.09290	.03890
1.034	10.000	-.09320	.04120	-.14370	.01320	-.00110	.08950	.04200
GRADIENT		-.00027	.00026	-.01361	.00193	-.00029	-.00013	.00115

RUN NO. 2186/ 0 RN/L = 6.83 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.231	-10.000	-.10720	.05110	.16310	-.02140	.00020	.10640	.04670
1.231	-8.000	-.10890	.05230	.12310	-.01610	.00010	.10920	.04040
1.231	-6.000	-.11220	.05630	.08880	-.01150	.00000	.10980	.03690
1.231	-4.000	-.11840	.06100	.05850	-.00750	.00000	.11320	.03320
1.231	-2.000	-.12090	.06180	.02810	-.00370	-.00040	.10950	.03890
1.231	.000	-.12080	.06300	.00170	.00010	-.00040	.11090	.04070
1.231	2.000	-.12120	.06200	-.03010	.00430	-.00070	.10780	.04330
1.231	4.000	-.12430	.06320	-.05670	.00660	-.00070	.10810	.04540
1.231	6.000	-.12170	.06020	-.08870	.01070	-.00120	.10760	.04500
1.231	8.000	-.11810	.05710	-.12080	.01450	-.00110	.10630	.04860
1.231	10.000	-.11810	.05490	-.16170	.01950	-.00130	.10410	.05190
GRADIENT		-.00061	.00023	-.01443	.00181	-.00008	-.00059	.00134

MSFC 570 (1431F) (T9) (U3) / (G3) / (S3/2) / (S3/2)

(R03726) (14 SEP 73)

REFERENCE DATA

BREF = 8.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .005 CGAF16 = 201.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2196/ 0 RN/L = 7.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.977	-10.000	-.08920	.03880	.17510	-.02380	.00000	.11920	.02220
1.977	-8.000	-.08690	.03990	.12580	-.01280	-.00010	.11770	.02090
1.977	-6.000	-.08450	.04070	.08580	-.00400	-.00020	.11790	.02030
1.977	-4.000	-.08430	.04230	.03510	-.00100	-.00030	.12010	.01820
1.977	-2.000	-.08870	.04400	.02720	-.00040	-.00040	.12160	.01650
1.977	.000	-.09150	.04430	-.00160	.00030	-.00060	.12230	.01570
1.977	2.000	-.09040	.04480	-.02690	.00070	-.00070	.12350	.01650
1.977	4.000	-.09380	.04580	-.05480	.00170	-.00060	.12560	.01590
1.977	6.000	-.09440	.04440	-.08940	.00360	-.00090	.12700	.01540
1.977	8.000	-.09530	.04380	-.12910	.01330	-.00100	.12540	.01790
1.977	10.000	-.10090	.04820	-.17690	.02450	-.00080	.12410	.02140
GRADIENT		-.00103	.00039	-.01359	.00032	-.00004	.00064	-.00024

RUN NO. 2181/ 0 RN/L = 7.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CSL	CAF	CAB
3.480	-10.000	-.06700	.03480	.14940	-.01290	-.00070	.10620	.00740
3.480	-8.000	-.06200	.03208	.11090	-.00650	-.00060	.10750	.00630
3.480	-6.000	-.06020	.02940	.07780	-.00230	-.00060	.10530	.00690
3.480	-4.000	-.05850	.02990	.05160	-.00130	-.00080	.10320	.00730
3.480	-2.000	-.05830	.02790	.02210	.00030	-.00090	.10320	.00730
3.480	.000	-.06330	.03020	-.00360	.00140	-.00060	.10300	.00780
3.480	2.000	-.06150	.02970	-.02820	.00140	-.00070	.10420	.00670
3.480	4.000	-.06290	.02920	-.05290	.00240	-.00040	.10710	.00670
3.480	6.000	-.06450	.03390	-.08030	.00400	-.00020	.10980	.00640
3.480	8.000	-.06400	.03340	-.11130	.00520	-.00020	.10930	.00510
3.480	10.000	-.07230	.03690	-.14940	.01260	-.00090	.11000	.00620
GRADIENT		-.00060	.00012	-.01296	.00042	.00005	.00044	-.00009



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T9) (U3) (S3/2) / (Q3) / (S3/2)

(R03134) (14 SEP 73)

REFERENCE DATA

SREF = 0.1900 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLC = 203.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2149/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.592	-10.000	-.27620	.02900	.00200	.01360	.01020	.10630	.04260
.592	-8.000	-.24200	.02620	-.01780	.02400	.00760	.10710	.04060
.592	-6.000	-.20360	.02790	-.02970	.03210	.00310	.10710	.04160
.592	-4.000	-.13760	.02040	-.03600	.03860	.00410	.10470	.04840
.592	-2.000	-.11970	.02170	-.04040	.04390	.00290	.10340	.04760
.592	.000	-.08970	.02550	-.03990	.04590	.00040	.10410	.04530
.592	2.000	-.06220	.03600	-.03590	.04480	-.00030	.10820	.03760
.592	4.000	-.02960	.04020	-.03600	.04240	-.00260	.11240	.03110
.592	6.000	.01600	.03870	-.03090	.03900	-.00370	.11410	.02800
.592	8.000	.03450	.03640	-.02030	.03220	-.00520	.10970	.03120
.592	10.000	.09440	.03440	-.01040	.02640	-.00920	.10830	.02930
GRADIENT		.01567	.00269	.00043	.00042	-.00078	.00101	-.00223

RUN NO. 2150/ 0 RN/L = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.33550	.05270	.03300	.00210	.01130	.11280	.05990
.902	-8.000	-.29310	.05170	.01140	.01150	.00930	.11700	.05510
.902	-6.000	-.25180	.03300	-.01040	.02330	.00730	.11750	.05290
.902	-4.000	-.20980	.05240	-.02260	.03240	.00530	.11660	.05270
.902	-2.000	-.17390	.05200	-.03280	.03960	.00340	.11720	.05090
.902	.000	-.13560	.05210	-.03470	.04330	.00150	.11760	.05020
.902	2.000	-.09480	.05560	-.03420	.04560	.00030	.11950	.04700
.902	4.000	-.05790	.05940	-.03040	.04330	-.00170	.12030	.04400
.902	6.000	-.01340	.05920	-.02530	.03970	-.00350	.11330	.05250
.902	8.000	.03050	.05460	-.01530	.03250	-.00560	.11320	.04890
.902	10.000	.08020	.05010	.00430	.01970	-.00920	.11520	.04000
GRADIENT		.01915	.00088	-.00085	.00139	-.00085	.00046	-.00107

MSFC 570 (1A31F) (T9) (U5) (S3/2) / (O3) / (S3/2)

(R83T34) (14 SEP 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 SREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF16 = 203.000
 DELTA2 = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2151/ 0 RN/L = 6.55 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.048	-10.000	-33530	.04640	.04340	-.00040	.01200	.15140	.03150
1.048	-8.000	-.28290	.04560	.02275	.00950	.00950	.15580	.04690
1.048	-6.000	-.23900	.04860	-.00170	.02190	.00750	.15700	.04450
1.048	-4.000	-.19720	.04880	-.02190	.03410	.00320	.15820	.04190
1.048	-2.000	-.15550	.04650	-.02990	.04150	.00310	.15920	.03910
1.048	.000	-.11570	.04840	-.02950	.04460	.00330	.16050	.03600
1.048	2.000	-.07910	.05190	-.02970	.04520	-.00310	.15920	.03320
1.048	4.000	-.03600	.05470	-.01950	.03940	-.00190	.15650	.03130
1.048	6.000	.00250	.05520	-.01130	.03320	-.00360	.15100	.02990
1.048	8.000	.05460	.04700	.00390	.02310	-.00590	.13240	.02330
1.048	10.000	.11230	.03370	.02140	.01210	-.00920	.14950	.02320
GRADIENT		.01974	.00096	.00030	.00072	-.00096	-.00022	-.00136

RUN NO. 2152/ 1 RN/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.244	-10.000	-33320	.03710	.05190	-.00040	.01350	.17160	.06840
1.244	-8.000	-.29420	.03620	.02890	.01010	.01020	.17530	.06370
1.244	-6.000	-.24790	.04190	.00290	.02410	.00790	.17920	.05890
1.244	-4.000	-.20700	.04930	-.02120	.03940	.00570	.18200	.05590
1.244	-2.000	-.16760	.05500	-.03590	.05130	.00390	.18400	.05340
1.244	.000	-.13100	.06000	-.03710	.05340	.00220	.18440	.05390
1.244	2.000	-.09630	.06740	-.03400	.05500	.00070	.18440	.04900
1.244	4.000	-.06220	.07490	-.02860	.05080	-.00090	.19050	.04530
1.244	6.000	-.01430	.06630	-.01760	.04260	-.00400	.19030	.04140
1.244	8.000	.03650	.06350	-.00030	.03370	-.00620	.18590	.04010
1.244	10.000	.09020	.05940	.02010	.02190	-.00920	.18390	.03930
GRADIENT		.01804	.00316	-.00065	.00133	-.00092	.00107	-.00124



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TABULATED SOURCE DATA - NSFC 370

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NSFC 370 (1A31F) (T9) (S3/2) / (C31) / (S3/2)

(R03734) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN
 LREF = 5.3130 IN.
 BREF = 3.3130 IN.
 SCALE = .0040

XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

PARAMETRIC DATA

BETA = .000 CONFIC = 203.000
 DELTAZ = .143 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2143/ 0 RM/L = 6.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.969	-10.000	-.40660	.08810	.04990	-.01240	.01870	.17430	.03100
1.969	-6.000	-.31470	.06240	.03580	-.00600	.01300	.17170	.02930
1.969	-6.000	-.24530	.05110	.01820	.00630	.00910	.17410	.02940
1.969	-4.000	-.19230	.04900	-.00190	.02130	.00620	.17740	.02900
1.969	-2.000	-.14180	.04940	-.01770	.03420	.00400	.19090	.02430
1.969	.000	-.09910	.05390	-.02090	.04120	.00230	.19800	.02110
1.969	2.000	-.06610	.06390	-.01820	.04240	.00110	.20120	.01910
1.969	4.000	-.03340	.07610	-.01120	.03690	.00000	.20630	.01980
1.969	6.000	.01260	.07360	.00020	.03100	-.00260	.20110	.01940
1.969	8.000	.06450	.07430	.01960	.02020	-.00560	.20440	.01740
1.969	10.000	.13450	.05900	.03890	.01030	-.01040	.19860	.02010
GRADIENT		.01970	.00354	-.00096	.00217	-.00076	.00390	-.00119

RUN NO. 2133/ 0 RM/L = 6.96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.37180	.10600	.03100	-.00500	.01710	.14630	.00910
3.480	-8.000	-.31340	.09030	.02360	-.00290	.01360	.14710	.00740
3.480	-6.000	-.25450	.07550	.01850	-.00070	.01060	.14950	.00600
3.480	-4.000	-.19520	.06110	.00920	.00660	.00730	.15070	.00530
3.480	-2.000	-.14230	.05150	-.00430	.01720	.00470	.15240	.00570
3.480	.000	-.09270	.04420	-.01100	.02340	.00240	.15420	.00610
3.480	2.000	-.04450	.03550	-.01070	.02730	.00040	.15900	.00430
3.480	4.000	.00140	.03130	-.00410	.02240	-.00080	.15940	.00340
3.480	6.000	.04900	.02330	.00210	.01650	-.00360	.15910	.00320
3.480	8.000	.09800	.01550	.00770	.01460	-.00560	.16120	.00280
3.480	10.000	.16150	-.00050	.01670	.00930	-.00910	.15750	.00230
GRADIENT		.02456	-.00376	-.00165	.00208	-.00104	.00120	-.00026

MSFC 570 (IASIF) (T9) (U3) (S3/21) (G3) / (S3/2)

(R93135) (07 DEC 75)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 203.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTING = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2148/ 0 RM/L = 4.94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.590	-10.000	-.05460	.00200	.07790	.03770	-.00480	.10090	.04190
.590	-8.000	-.06400	.00980	.07660	.02990	-.00360	.10090	.04350
.590	-6.000	-.07370	.01310	.03400	.03690	-.00270	.10460	.03990
.590	-4.000	-.08340	.01770	.01270	.03730	-.00190	.10690	.03790
.590	-2.000	-.08710	.02360	-.00990	.04120	.00000	.10940	.03950
.590	.000	-.09120	.02610	-.04160	.04660	.00110	.11570	.03650
.590	2.000	-.09180	.03020	-.06360	.05020	.00230	.11130	.04490
.590	4.000	-.09890	.03200	-.09280	.03460	.00350	.11530	.04430
.590	6.000	-.10010	.03530	-.11590	.06000	.00440	.12210	.04100
.590	8.000	-.09940	.03960	-.14630	.06650	.00570	.12230	.04450
.590	10.000	-.09760	.04120	-.17870	.07350	.00940	.12290	.04710
GRADIENT		-.00176	.00176	-.01321	.00216	.00064	.00094	.00096

RUN NO. 2147/ 0 RM/L = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-.06590	.02130	.11230	.02800	-.00400	.10930	.05230
.899	-8.000	-.10080	.03010	.08400	.02900	-.00350	.11220	.05110
.899	-6.000	-.10980	.03600	.03290	.03020	-.00230	.11190	.05030
.899	-4.000	-.12020	.04330	.02780	.03000	-.00110	.11440	.04930
.899	-2.000	-.12710	.04930	.00040	.03350	.00040	.11490	.05100
.899	.000	-.13410	.05360	-.02990	.04160	.00150	.11330	.05350
.899	2.000	-.14050	.05910	-.06110	.04930	.00330	.11760	.05460
.899	4.000	-.13990	.06220	-.09040	.05610	.00460	.12210	.05240
.899	6.000	-.13220	.05770	-.11730	.06090	.00590	.12180	.06130
.899	8.000	-.13730	.06340	-.15240	.06990	.00740	.12330	.06310
.899	10.000	-.14160	.06800	-.18880	.07760	.00930	.12310	.06420
GRADIENT		-.00263	.00237	-.01499	.00330	.00071	.00091	.00047



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (T9) (U3) (S3/2)/(03)/(S3/2)

(R83735) (07 DEC 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CCNFTG = 203.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2146/ 0 RM/L = 6.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-0.6800	.01390	.12370	.02250	-.00330	.14150	.04000
1.051	-8.000	-0.7900	.02110	.09300	.02630	-.00270	.14470	.04210
1.051	-6.000	-0.8440	.02380	.06440	.02660	-.00170	.13150	.03940
1.051	-4.000	-0.9100	.02780	.03390	.02950	-.00140	.13380	.03880
1.051	-2.000	-1.0140	.03440	.00110	.03660	-.00030	.15900	.03780
1.051	.000	-1.0980	.04380	-.03080	.04440	.00140	.15710	.03810
1.051	2.000	-1.1940	.05150	-.06820	.03590	.00300	.16290	.03750
1.051	4.000	-1.2410	.05740	-.10350	.06790	.00430	.17240	.03660
1.051	6.000	-1.2570	.06050	-.13690	.07340	.00550	.16920	.04010
1.051	8.000	-1.2520	.06280	-.17470	.08310	.00650	.16710	.04640
1.051	10.000	-1.2970	.06590	-.21910	.09560	.00920	.16690	.04900
1.051	GRADIENT	-.00421	.00391	-.01720	.00480	.00073	.00210	-.00024

RUN NO. 2145/ 0 RM/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-0.8400	.01850	.13670	.02810	-.00420	.16550	.05470
1.248	-8.000	-0.9460	.02500	.10270	.02730	-.00310	.17320	.04890
1.248	-6.000	-1.0530	.03230	.06950	.03050	-.00220	.17860	.04920
1.248	-4.000	-1.1860	.04290	.03700	.03490	-.00080	.17980	.04840
1.248	-2.000	-1.2840	.05090	-.00030	.04430	.00030	.17960	.05220
1.248	.000	-1.4270	.06250	-.03700	.05540	.00250	.18170	.05440
1.248	2.000	-1.5000	.06980	-.07140	.06420	.00420	.19050	.05100
1.248	4.000	-1.6050	.07970	-.10640	.07070	.00600	.19170	.04830
1.248	6.000	-1.6580	.08630	-.13980	.07770	.00740	.18940	.04870
1.248	8.000	-1.7150	.09100	-.17910	.08690	.00930	.18750	.05290
1.248	10.000	-1.7910	.09670	-.22600	.09730	.01160	.18920	.05690
1.248	GRADIENT	-.00527	.00463	-.01788	.00458	.00086	.00179	-.00007

MSFC 370 (1A31F) (T9) (U5) (S3/2) / (Q3) / (S3/2)

(R83735) (07 DEC 73)

REFERENCE DATA

SREF = 5.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CCONF = 203.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2144/ 0 RV/L = 6.79 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.992	-10.000	-.07510	.02300	.16680	.01240	-.00230	.16270	.03030
1.992	-8.000	-.07130	.02370	.12230	.01930	-.00170	.16480	.02730
1.992	-6.000	-.07390	.02560	.08180	.02570	-.00100	.16990	.02530
1.992	-4.000	-.07920	.03300	.04350	.03400	.00000	.17360	.02400
1.992	-2.000	-.08970	.04280	.01100	.03670	.00100	.17560	.02350
1.992	.000	-.09360	.04750	-.02090	.03970	.00200	.19030	.02190
1.992	2.000	-.10020	.05260	-.03340	.04410	.00290	.19190	.02370
1.992	4.000	-.11910	.06230	-.09180	.05110	.00470	.19960	.02060
1.992	6.000	-.13370	.06930	-.13560	.06390	.00620	.20160	.02400
1.992	8.000	-.14370	.07710	-.19030	.07540	.00780	.21230	.02450
1.992	10.000	-.15950	.08840	-.23290	.09030	.00990	.21690	.02590
	GRADIENT	-.00451	.00343	-.01675	.00209	.00036	.00191	-.00033

RUN NO. 2134/ 0 RV/L = 6.93 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.06220	.02690	.16010	-.00490	-.00090	.13760	.00330
3.480	-8.000	-.05700	.02460	.11820	.00490	-.00090	.13930	.00490
3.480	-6.000	-.06180	.02770	.08150	.01140	-.00030	.14240	.00310
3.480	-4.000	-.06650	.03090	.04980	.01760	.00000	.14520	.00630
3.480	-2.000	-.06930	.03310	.01960	.02250	.00060	.14990	.00730
3.480	.000	-.07710	.04040	-.01220	.02710	.00170	.15320	.00650
3.480	2.000	-.08550	.04980	-.04320	.03130	.00300	.16130	.00590
3.480	4.000	-.08700	.05480	-.07550	.03690	.00420	.16730	.00540
3.480	6.000	-.09110	.05990	-.11090	.04390	.00500	.17110	.00560
3.480	8.000	-.09860	.06590	-.14910	.05190	.00590	.17850	.00590
3.480	10.000	-.10820	.07510	-.19180	.06260	.00630	.18310	.00610
	GRADIENT	-.00286	.00322	-.01552	.00236	.00054	.00284	-.00016



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TABULATED SOURCE DATA - HSFC 570

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HSFC 570 (1A31F) (T9)/(Q3)/(S3/2)/(S3/2)Y1E

(R83140) (04 OCT 75)

REFERENCE DATA

SREF = 6.190 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CNFIC = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 7.000 SPADIA = .100
 SPACAP = .050

RUN NO. 2217/ 1 RV/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.22030	-.02310	-.01450	.00010	-.00060	.08340	.04560
1.253	-8.000	-.17980	-.01940	-.01160	-.00010	-.00050	.08600	.04130
1.253	-6.000	-.14400	-.01410	-.00920	-.00030	-.00030	.08790	.03950
1.253	-4.000	-.11030	-.00760	-.00670	-.00050	-.00040	.08970	.03590
1.253	-2.000	-.08040	.00010	-.01020	-.00070	-.00050	.08900	.03350
1.253	.000	-.05630	.01000	-.01130	.00000	-.00020	.08810	.03190
1.253	2.000	-.03440	.02080	-.00780	-.00080	-.00020	.08620	.02990
1.253	4.000	-.01260	.02920	-.00940	-.00090	-.00050	.09630	.02520
1.253	6.000	.01400	.03600	-.00860	-.00040	-.00050	.09550	.02320
1.253	8.000	.03830	.04630	-.00660	-.00070	-.00040	.09290	.02370
1.253	10.000	.07580	.04970	-.00750	-.00100	-.00040	.07840	.02310
	GRADIENT	.01207	.00461	.00005	-.00004	.00001	-.00008	-.00125

MSFC STD (1A31F) (T9) / (G3) / (S3/21) / (S3/21)1E

(R83141) (04 OCT 73)

REFERENCE DATA

BREF = 6.1880 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAF1G = 204.000
 DELTAZ = .140 RUDDER = .900
 X-SR8 = .000 CRBINC = .300
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 2211/ 1 RM/L = 6.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.21900	-.02090	-.01500	.00140	-.00090	.08780	.04420
1.253	-6.000	-.18040	-.01710	-.01270	.00130	-.00080	.08950	.04110
1.253	-6.000	-.13870	-.01460	-.01160	.00150	-.00030	.09040	.03900
1.253	-4.000	-.10140	-.01090	-.01180	.00150	-.00060	.09100	.03700
1.253	-2.000	-.07350	-.00290	-.01190	.00120	-.00060	.09270	.03400
1.253	.000	-.04590	.00510	-.01110	.00130	-.00040	.09320	.03170
1.253	2.000	-.02880	.01690	-.00430	.00040	-.00020	.09280	.02830
1.253	4.000	-.00660	.02490	-.00760	-.00020	-.00040	.09210	.02490
1.253	6.000	.01780	.03310	-.00990	.00040	-.00030	.09740	.02630
1.253	8.000	.04570	.04050	-.00860	.00030	-.00060	.08670	.02370
1.253	10.000	.08470	.04460	-.00590	-.00090	-.00050	.09340	.02270
	GRADIENT	.01171	.00455	.00058	-.00021	.00004	.00012	-.00150



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570(1A31F)(79)/(03)/(03/2)/(03/2)Y1E

(R03742) (04 OCT 73)

REFERENCE DATA

BREF = 0.1880 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLC = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = 11.120 SPADIA = .390
 SPAGAP = .090

RUN NO. 2218/ 1 RN/L = 6.67 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLN	CY	CYN	CBL	CAF	CAB
1.255	-10.000	-22040	-.01990	-.01360	.00090	-.00060	.09150	.04950
1.255	-8.000	-18060	-.01690	-.01460	.00120	-.00060	.09280	.04430
1.255	-6.000	-14570	-.01290	-.01390	.00160	-.00060	.09330	.04170
1.255	-4.000	-10990	-.00830	-.01240	.00110	-.00050	.09550	.03720
1.255	-2.000	-07670	-.00160	-.01250	.00140	-.00080	.09790	.03220
1.255	.000	-.04840	.00640	-.01150	.00150	-.00070	.09710	.03130
1.255	2.000	-.02320	.01490	-.00920	.00020	-.00060	.09360	.03140
1.255	4.000	-.00390	.02130	-.01120	.00100	-.00050	.09450	.02430
1.255	6.000	.02160	.02860	-.00990	.00110	-.00090	.09290	.02290
1.255	8.000	.03200	.03600	-.00770	.00080	-.00040	.09070	.02220
1.255	10.000	.08990	.03940	-.00660	.00140	-.00050	.08530	.02440
	GRADIENT	.01326	.00380	.00029	-.00007	.00001	-.00002	-.00133

NSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2) Y1E

(R83T43) (04 OCT 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 204.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .300
SPACER = 13.140 SPADIA = .200
SPAGAP = .100

RUN NO. 2219/ 0 RV/L = 6.71 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.21440	-.02600	-.01450	.00100	-.00100	.06350	.04330
1.251	-8.000	-.17740	-.02200	-.01370	.00070	-.00020	.06560	.04130
1.251	-6.000	-.14050	-.01800	-.01240	.00110	-.00050	.06640	.03990
1.251	-4.000	-.10330	-.01240	-.01070	.00100	-.00040	.06650	.03770
1.251	-2.000	-.07500	-.00380	-.00900	-.00020	-.00050	.06720	.03600
1.251	.000	-.05310	.00730	-.00650	-.00030	-.00030	.06780	.03250
1.251	2.000	-.03160	.01780	-.00570	-.00030	-.00060	.06710	.02870
1.251	4.000	-.00830	.02310	-.00750	-.00050	-.00070	.06710	.02530
1.251	6.000	.01350	.03330	-.00790	.00000	-.00040	.06660	.02400
1.251	8.000	.04280	.04130	-.00850	.00030	-.00050	.06240	.02450
1.251	10.000	.07680	.04990	-.00820	.00070	-.00090	.07840	.02440
GRADIENT		.01167	.00483	.00033	-.00015	.00000	.00036	-.00160

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TABULATED SOURCE DATA - MSFC 570

PAGE 561

MSFC 570(1A31F)(T9)/(Q3)/(S3/2)/(S3/2)Y1E

(R03T44) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = 19.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 2212/ 0 RV/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.22770	-.01570	-.01130	-.00030	-.00030	.09050	.04400
1.253	-8.000	-.18810	-.01300	-.01070	-.00030	-.00030	.09190	.04010
1.253	-6.000	-.15410	-.00820	-.01040	.00000	-.00070	.09300	.03780
1.253	-4.000	-.11970	-.00330	-.01060	.00030	-.00070	.09260	.03700
1.253	-2.000	-.08640	.00290	-.01070	.00030	-.00030	.09290	.03440
1.253	.000	-.05900	.01260	-.00960	.00030	-.00020	.09310	.03130
1.253	2.000	-.03750	.02360	-.00620	-.00060	-.00010	.09320	.02740
1.253	4.000	-.01390	.02950	-.00630	-.00130	-.00030	.09290	.02240
1.253	6.000	.01160	.03790	-.00670	-.00080	-.00030	.09190	.01970
1.253	8.000	.03590	.04700	-.00530	-.00080	-.00040	.09000	.01930
1.253	10.000	.07130	.05230	-.00450	-.00110	-.00030	.08340	.02090
GRADIENT		.01302	.00431	.00066	-.00020	.00004	.00004	-.00191

MSFC 570 (IASIF) (T9) / (O3) / (S3/2) / (S3/2) Y1E

(R83745) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

BETA = .000 COAFIC = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = 20.100 SPADIA = .200
 SPAGAP = .950

PARAMETRIC DATA

RUN NO. 2213/ 1 RIVL = 6.65 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLH	CY	CYN	CBL	CAF	CAB
1.252	-10.000	-.21230	-.02500	-.01370	.00010	-.00040	.06330	.03370
1.252	-8.000	-.17200	-.02180	-.01230	.00070	-.00050	.08510	.03050
1.252	-6.000	-.13620	-.01840	-.01490	.00200	-.00070	.06630	.04630
1.252	-4.000	-.09970	-.01560	-.01620	.00240	-.00050	.05760	.04200
1.252	-2.000	-.06610	-.00960	-.01430	.00200	-.00040	.09020	.03690
1.252	.000	-.04040	.00000	-.01370	.00160	-.00070	.09330	.03450
1.252	2.000	-.01890	.00990	-.01120	.00110	-.00070	.09690	.03350
1.252	4.000	.00430	.01690	-.00990	.00090	-.00090	.09700	.02960
1.252	6.000	.02770	.02530	-.00980	.00100	-.00070	.09340	.02920
1.252	8.000	.05430	.03410	-.00950	.00150	-.00010	.09260	.02640
1.252	10.000	.09520	.03540	-.01120	.00110	-.00040	.07970	.02530
GRADIENT		.01276	.00422	.00079	-.00021	-.00004	-.00022	-.00141



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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (IASIF) (TS) / (OS) / (S3/2) / (S3/2) YIE

(R03T40) (04 OCT 73)

REFERENCE DATA

SREF = 6.1900 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONFIG = 204.000
 DELTAZ = .290 RUDDER = .000
 X-SRB = .000 CRBINC = -.500
 SPACER = 18.163 SPADIA = .200
 SPAGAP = .050

RUN NO. 2214/ 0 RN/L = 6.66 GRADIENT INTERVAL = -9.00/ 9.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.254	-10.000	-22300	-.01600	-.01270	-.00040	-.00050	.09370	.04950
1.254	-8.000	-18170	-.01320	-.00960	-.00090	-.00020	.09760	.04430
1.254	-6.000	-14670	-.00890	-.00840	-.00100	-.00020	.09970	.03990
1.254	-4.000	-11100	-.00450	-.00660	-.00040	-.00040	.10150	.03540
1.254	-2.000	-07860	.00260	-.00900	.00020	-.00030	.10250	.03220
1.254	.000	-.03140	.01050	-.00910	.00020	-.00120	.10090	.03090
1.254	2.000	-.02870	.01940	-.01060	.00070	-.00100	.09730	.02930
1.254	4.000	-.00080	.02390	-.01060	.00030	-.00060	.09750	.02640
1.254	6.000	.02240	.03370	-.00990	.00060	-.00060	.09670	.02360
1.254	8.000	.04890	.04320	-.00660	.00000	-.00060	.09400	.02190
1.254	10.000	.08250	.04820	-.00770	.00030	-.00050	.09990	.01970
GRADIENT		.01351	.00368	-.00027	.00209	-.00205	-.00265	-.00104

MSFC 970 (1A31F) (79) / (Q3) / (S3/2) / (S3/2) Y1E

(R63747) (04 OCT 73)

REFERENCE DATA

SREF = 9.1900 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 204.000
 DELTAZ = .200 RUDDER = .000
 X-SRB = .000 CRBINC = 1.500
 SPACER = 17.160 SPADIA = .200
 SPACAP = .030

RUN NO. 2215/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.24130	-.00780	-.01360	.00090	-.00070	.10020	.04910
1.248	-6.000	-.20130	-.00450	-.01200	.00060	-.00060	.10210	.04330
1.248	-6.000	-.16230	-.00010	-.01040	.00030	-.00070	.10440	.03760
1.248	-4.000	-.12580	.00490	-.00770	.00000	-.00020	.10370	.03390
1.248	-2.000	-.09230	.01010	-.00760	.00000	-.00020	.10590	.03060
1.248	.000	-.06310	.01760	-.00900	.00020	-.00060	.10310	.02970
1.248	2.000	-.04070	.02740	-.00870	.00000	-.00060	.10190	.02760
1.248	4.000	-.01610	.03290	-.00740	-.00060	-.00040	.10350	.02130
1.248	6.000	.01190	.04000	-.00790	.00010	-.00040	.10150	.02110
1.248	8.000	.03740	.04810	-.00970	.00050	-.00030	.09960	.01940
1.248	10.000	.07200	.05440	-.00680	-.00010	-.00010	.09530	.01900
1.248	GRADIENT	.01355	.00366	-.00002	-.00006	-.00004	-.00043	-.00141



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2) Y1E

(R83748) (04 OCT 73)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFLC = 204.000
 DELTAZ = .280 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = 15.160 SPADIA = .200
 SPAGAP = .050

RUN NO. 2216/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.22940	-.01340	-.01430	.00130	-.00030	.09820	.04840
1.251	-8.000	-.18860	-.01060	-.01300	.00140	-.00030	.10030	.04330
1.251	-6.000	-.15500	-.00500	-.01030	.00010	-.00070	.10190	.03990
1.251	-4.000	-.11930	-.00020	-.00930	.00000	-.00060	.10280	.03510
1.251	-2.000	-.08500	.00330	-.00840	.00010	-.00060	.10360	.03150
1.251	.000	-.03730	.01320	-.01020	.00030	-.00070	.10220	.02970
1.251	2.000	-.03340	.02370	-.00450	-.00010	-.00060	.09910	.02930
1.251	4.000	-.00850	.02940	-.00630	-.00110	-.00050	.10070	.02390
1.251	6.000	.01560	.03730	-.01170	.00110	-.00070	.09940	.02230
1.251	8.000	.04470	.04530	-.00990	.00080	-.00060	.09720	.01960
1.251	10.000	.07900	.03100	-.00630	.00030	-.00040	.09230	.01960
GRADIENT	.01356	.00388	.00029	.00012	.00001	-.00001	-.00044	-.00123

NSFC 370 (1A31F) (T9) / (G3) / (S3/2) / (S3/2) Y1E

(R03T49) (04 OCT 73)

REFERENCE DATA

SREF = 8.1980 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

YMRP = 2.5490 IN.
YMRP = .0000 IN.
ZMRP = .0000 IN.

PARAMETRIC DATA

ALPHA = .000
DELTAZ = .140
X-SRS = .000
SPACER = 9.100
SPACAP = .050

CONFIC = 204.000
RUDDER = .000
CRBINC = .900
SPADIA = .200

RUN NO. 2210/0 RM/L = 6.65 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.256	-10.000	-.04840	.00820	.16410	-.02030	.00020	.09090	.04340
1.256	-8.000	-.04530	.00850	.12220	-.01220	.00020	.09310	.03950
1.256	-6.000	-.05140	.01130	.08600	-.00770	.00010	.09220	.03850
1.256	-4.000	-.05420	.01160	.05510	-.00350	.00000	.09320	.03520
1.256	-2.000	-.05420	.01070	.02620	-.00290	-.00040	.09340	.03170
1.256	.000	-.05080	.00950	-.00200	.00010	-.00040	.09980	.03490
1.256	2.000	-.05470	.01050	-.03160	.00360	-.00070	.09080	.03720
1.256	4.000	-.05540	.01090	-.06100	.00600	-.00090	.09030	.03750
1.256	6.000	-.05610	.01100	-.09190	.00960	-.00110	.09030	.04040
1.256	8.000	-.05160	.01000	-.12370	.01260	-.00110	.09740	.04540
1.256	10.000	-.05240	.00850	-.17150	.02060	-.00150	.09700	.04730
GRADIENT		-.00015	-.00009	-.01450	.00147	-.00010	-.00041	.00051

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T9) / (C3) / (S3/2) / (S3/2) Y1EG

(R03T50) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 205.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 2220/ 0 RV/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.21940	-.02230	-.01510	.00160	-.00070	.06870	.04770
1.250	-6.000	-.17900	-.01950	-.01220	.00120	-.00090	.09120	.04290
1.250	-6.000	-.14440	-.01410	-.01180	.00090	-.00060	.09190	.03940
1.250	-4.000	-.10910	-.00940	-.01240	.00130	-.00040	.09150	.03770
1.250	-2.000	-.07670	-.00300	-.01180	.00160	-.00070	.09260	.03550
1.250	.000	-.03220	.00600	-.01280	.00220	-.00070	.09270	.03360
1.250	2.000	-.03290	.01680	-.00960	.00090	-.00050	.09130	.03110
1.250	4.000	-.00950	.02320	-.01060	.00090	-.00060	.09000	.02790
1.250	6.000	.01740	.03020	-.00920	.00100	-.00050	.09350	.02590
1.250	6.000	.04390	.03850	-.00910	.00090	-.00060	.09110	.02400
1.250	10.000	.06380	.04140	-.00660	.00090	-.00100	.09440	.02210
GRADIENT	.01215	.00425	.00029	.00029	-.00005	-.00001	-.00021	-.00121

MSFC 370 (1A31F) (T9) / (G3) / (S3/2) / (S3/2) Y3E

(R83T31) (04 OCT 73)

REFERENCE DATA

SREF = 8.1900 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 209.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .100 SPADIA = .200
SPAGAP = .050

RUN NO. 2209/ 0 RNVL = 6.65 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CSL	CAF	CAB
1.252	-10.000	-.22440	-.01800	-.00420	.00140	-.00070	.04230	.04450
1.252	-8.000	-.18350	-.01440	-.00210	.00040	-.00070	.04350	.04130
1.252	-6.000	-.14760	-.01020	-.00340	.00040	-.00060	.04500	.03760
1.252	-4.000	-.11250	-.00310	.00010	-.00080	-.00020	.04680	.03450
1.252	-2.000	-.07950	.00130	.00140	-.00160	-.00020	.04550	.03360
1.252	.000	-.04810	.00720	.00030	-.00160	-.00050	.04390	.03370
1.252	2.000	-.03490	.02120	.00000	-.00090	-.00040	.04300	.03060
1.252	4.000	-.01020	.02860	.00230	-.00160	-.00040	.04350	.02750
1.252	6.000	.01540	.03780	.00280	-.00140	-.00050	.04070	.02670
1.252	8.000	.04190	.04600	.00210	-.00180	-.00040	.03990	.02520
1.252	10.000	.07650	.03270	.00450	-.00250	.00000	.07600	.02410
GRADIENT		.01246	.00436	.00017	-.00003	-.00001	-.00033	-.00092

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TABULATED SOURCE DATA - MSFC 370

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MSFC 370 (1A31F) (T9) / (G3) / (S3/2) / (S3/2) Y10

(R03T52) (04 OCT 73)

REFERENCE DATA

BREF = 6.1980 SO. IN XMRP = 2.5490 IN.
 LREF = 3.3130 IN. YMRP = .0000 IN.
 BREF = 3.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 209.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPACAP = .950

RUN NO. 2207/ 2 RNVL = 6.61 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-2.1450	-.02510	-.00410	.00130	-.00020	.07510	.04510
1.251	-8.000	-1.7610	-.02080	-.00040	.00010	-.00020	.08120	.04090
1.251	-6.000	-1.3960	-.01700	-.00020	.00000	-.00010	.09260	.03770
1.251	-4.000	-1.0300	-.01300	.00030	-.00070	-.00020	.09360	.03460
1.251	-2.000	-.07280	-.00540	.00070	-.00100	-.00050	.09340	.03290
1.251	.000	-.04990	.00360	-.00210	-.00010	-.00040	.09220	.03210
1.251	2.000	-.02830	.01490	.00160	-.00100	-.00010	.09020	.03060
1.251	4.000	-.00370	.02200	.00060	-.00060	-.00030	.09020	.02600
1.251	6.000	.02040	.03100	.00230	-.00150	-.00040	.07940	.02590
1.251	8.000	.05110	.03730	-.00300	.00060	.00060	.07520	.02570
1.251	10.000	.07390	.04610	.00080	-.00210	-.00010	.07500	.02120
1.251	GRADIENT	.01216	.00451	.00009	-.00001	-.00001	-.00050	-.00099

(R03753) (04 OCT 73)

MSFC 570(1A31F)(79)/(G3)/(S3/2)/(S3/2)Y20

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CNFIC = 210.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = 21.000 SPADIA = .200
SPAQAP = .030

RUN NO. 2206/ 0 RN/L = 6.61 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.20730	-.03130	-.00430	.00020	-.00020	.00080	.04360
1.246	-6.000	-.16920	-.02620	-.00270	.00010	-.00010	.00310	.03930
1.246	-6.000	-.13660	-.01910	-.00030	-.00030	-.00020	.00450	.03670
1.246	-4.000	-.10430	-.01190	-.00030	-.00060	-.00010	.00530	.03400
1.246	-2.000	-.07400	-.00230	-.00030	-.00090	-.00020	.00340	.03100
1.246	.000	-.03130	.00800	.00020	-.00110	-.00010	.00520	.02870
1.246	2.000	-.03220	.02020	.00300	-.00190	-.00010	.00260	.02940
1.246	4.000	-.00770	.02360	.00310	-.00110	-.00010	.00270	.02490
1.246	6.000	.01660	.03440	.00070	-.00130	.00000	.00160	.02470
1.246	8.000	.04430	.04370	.00340	-.00230	-.00040	.00960	.02360
1.246	10.000	.07890	.04810	.00390	-.00260	.00000	.00700	.02140
	GRADIENT	.01175	.00483	.00020	-.00010	.00001	-.00040	-.00105

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TABULATED SOURCE DATA - WSFC 570

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WSFC 570 (1A31F) (79) / (03) / (S3/21) / (S3/21Y30)

(R0314) (04 OCT 73)

REFERENCE DATA

XREF = 0.1980 IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 212.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .220 SPADIA = .200
 SPACAP = .050

RUN NO. 2208/ 0 RNL = 6.65 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.251	-10.000	-.22670	-.01760	-.00500	.00110	-.00030	.07880	.04590
1.251	-8.000	-.18660	-.01440	-.00190	.00000	-.00020	.08090	.04210
1.251	-6.000	-.15080	-.00950	-.00080	-.00050	-.00030	.08290	.03910
1.251	-4.000	-.11690	-.00460	.00040	-.00140	-.00050	.08320	.03530
1.251	-2.000	-.08450	.00110	.00220	-.00220	-.00040	.08500	.03170
1.251	.000	-.05720	.00950	.00010	-.00080	-.00020	.08530	.02890
1.251	2.000	-.03620	.02120	.00180	-.00140	-.00010	.08130	.02960
1.251	4.000	-.01520	.02900	.00010	-.00090	-.00010	.08200	.02430
1.251	6.000	.01520	.03640	.00150	-.00140	-.00010	.08000	.02390
1.251	8.000	.04180	.04560	.00250	-.00160	.00000	.07640	.02500
1.251	10.000	.07650	.05000	-.00110	-.00080	-.00030	.07330	.02430
GRADIENT		.01258	.00436	-.00005	.00009	.00005	-.00030	-.00128

MSFC 570(1A31F)(T9)(U3)/(S3/2)/(S3/2)Y1E

(R83T53) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

BETA = .000
DELTAZ = .140
X-SRB = .000
SPACER = 9.100
SPAGAP = .050

PARAMETRIC DATA

CONFIG = 206.000
RUDDER = .000
CRBINC = .000
SPADIA = .200

RUN NO. 2203/ 0 RN/L = 6.56 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.239	-10.000	-.27130	.02320	-.00440	.00070	-.00100	.11500	.03750
1.239	-8.000	-.23500	.02770	-.00330	.00030	-.00110	.11540	.03300
1.239	-6.000	-.19920	.03290	-.00040	.00000	-.00070	.11660	.03010
1.239	-4.000	-.16310	.03850	-.00010	.00000	-.00120	.11780	.04740
1.239	-2.000	-.13230	.04520	-.00010	.00070	-.00190	.11920	.04340
1.239	.000	-.10360	.05400	.00060	.00090	-.00090	.11990	.04130
1.239	2.000	-.08210	.06090	.00310	.00050	-.00100	.11790	.04010
1.239	4.000	-.05840	.06690	.00260	.00190	-.00080	.11620	.03640
1.239	6.000	-.03200	.07340	.00400	.00260	-.00090	.11100	.03950
1.239	8.000	.00370	.07510	.00240	.00290	-.00100	.10590	.03750
1.239	10.000	.04590	.07520	-.00130	.00090	-.00070	.10410	.03510
GRADIENT		.01318	.00362	.00028	-.00018	.00009	-.00022	-.00127



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (T9) (U3) / (C3) / (S3/2) / (S3/2) YZE

(R03156) (04 OCT 73)

REFERENCE DATA

BREF = 0.1990 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 207.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBTNC = .500
SPACER = 9.000 SPADIA = .200
SPACAP = .050

RUN NO. 2204/ D RV/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.245	-10.000	-.27250	.02900	-.00410	.00000	-.00080	.11360	.03370
1.245	-8.000	-.23430	.02910	-.00100	-.00090	-.00070	.11570	.04920
1.245	-6.000	-.19960	.03470	.00000	-.00100	-.00090	.11780	.04590
1.245	-4.000	-.16660	.04160	.00100	-.00100	-.00110	.11750	.04470
1.245	-2.000	-.13600	.04850	.00010	-.00110	-.00070	.11820	.04320
1.245	.000	-.10890	.05640	.00030	-.00130	-.00060	.11910	.03980
1.245	2.000	-.08220	.06330	.00170	-.00110	-.00080	.11960	.03720
1.245	4.000	-.05900	.06830	.00190	-.00230	-.00060	.11530	.03360
1.245	6.000	-.03310	.07630	.00710	-.00360	-.00030	.11120	.03410
1.245	8.000	.00140	.07910	.00370	-.00390	-.00030	.10590	.03430
1.245	10.000	.04000	.09080	.00240	-.00230	-.00060	.10260	.03260
GRADIENT	.01345	.00341	.00017	.00013	-.00013	.00002	-.00016	-.00141

MSFC 570 (1A31F) (T9) (U3) (S3/2) (S3/2)Y20

(R03T57) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

MACH ALPHA CN CLM CY CYN CBL CAF CAB
1.245 -10.000 -1.27200 .02290 -.00390 -.00040 -.00070 .10590 .05150
1.245 -8.000 -1.23800 .02810 -.00320 -.00030 -.00090 .10730 .04720
1.245 -6.000 -1.20110 .03370 -.00070 -.00060 -.00100 .10880 .04400
1.245 -4.000 -1.16890 .03980 -.00160 -.00020 -.00090 .10940 .04430
1.245 -2.000 -1.13660 .04570 -.00020 -.00090 -.00060 .10900 .04340
1.245 .000 -1.10840 .05390 -.00220 -.00070 -.00070 .10900 .04010
1.245 2.000 -1.08610 .06210 -.00160 .00090 -.00070 .10910 .03660
1.245 4.000 -1.06280 .06940 .00230 -.00220 -.00070 .10620 .03450
1.245 6.000 -1.03470 .07310 .00080 -.00180 -.00030 .10090 .03420
1.245 8.000 .00260 .07500 .00240 -.00150 -.00060 .09680 .03470
1.245 10.000 .04400 .07420 -.00120 -.00050 -.00070 .09230 .03220
GRADIENT .01314 .00373 .00034 -.00015 -.00021 -.000132

BETA = .000 COAFTG = 211.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = 21.000 SPADIA = .200
SPAGAP = .050

RUN NO. 2203/ 1 RM/L = 6.62 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

REFERENCE DATA

SREF = 6.1980 SQ. IN
LREF = 5.3130 IN.
BREF = 5.3130 IN.
SCALE = .0040

MACH ALPHA CN CLM CY CYN CBL CAF CAB
.897 .090 -.04990 .00650 .00780 -.00450 .00020 .03560 .02620
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

BETA = .000 COAFTG = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .300
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2257/ 0 RM/L = 6.25 GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

MACH ALPHA CN CLM CY CYN CBL CAF CAB
1.246 .090 -.04680 .01160 .00820 -.00240 .00000 .09350 .01920
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

BETA = .000 COAFTG = 200.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .300
SPACER = .000 SPADIA = .000
SPAGAP = .000

MSFC 570 (1A31F) (T9) (U3) (S3/2) (S3/2)

(R03T59) (14 SEP 73)



MSFC 570 (1A31F) (T9) (S3/2)/(C3)/(S3/2)

(R83T59) (14 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

RUN NO. 2284/ 0 RIVL = 5.82 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAP	CAB
.908	-.150	-.07300	.00160	-.04360	.04750	.00090	.18210	-.04110
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2289/ 0 RIVL = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.291	-.170	-.08300	.01970	-.04340	.05680	.00290	.35050	-.13410
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

BETA = .000 COAFLC = 214.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .500
SPAGAP = .000

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

RUN NO. 2347/ 0 RIVL = 5.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.597	-.050	-.03010	-.02010	-.04240	.04910	-.00110	.09000	.03230
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2346/ 0 RIVL = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.794	-.100	-.04670	-.01140	-.03550	.04510	-.00040	.09910	.04100
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2345/ 0 RIVL = 6.31 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-.120	-.06100	-.00350	-.03390	.04580	-.00010	.09790	.04490
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

PARAMETRIC DATA

BETA = .000 COAFLC = 214.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

MSFC 570 (1A31F) (T9) (S3/2)/(C3)/(S3/2)

(R83T60) (14 SEP 73)

MSFC 570 (1A31F) (T9) (S3/2) / (G3) / (S3/2)

(R03700) (14 SEP 73)

REFERENCE DATA

BREF = 0.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFTG = 214.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2343/ 0 RN/L = 6.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.047
ALPHA CN CLM CY CYN CBL CAF CAB
-.120 -.03600 .00270 -.03180 .05220 .00030 .14830 .03490
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2344/ 0 RN/L = 6.72 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.247
ALPHA CN CLM CY CYN CBL CAF CAB
-.140 -.06940 .01510 -.03110 .05210 .00150 .17630 .03670
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2345/ 0 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.458
ALPHA CN CLM CY CYN CBL CAF CAB
-.110 -.05290 .00990 -.03640 .03740 .00200 .19690 .02590
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2351/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.954
ALPHA CN CLM CY CYN CBL CAF CAB
-.120 -.05700 .01670 -.02300 .04290 .00180 .17140 .02010
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2352/ 0 RN/L = 4.35 GRADIENT INTERVAL = -5.00/ 5.00

MACH 2.990
ALPHA CN CLM CY CYN CBL CAF CAB
-.080 -.07180 .01650 -.01900 .03580 .00240 .14410 .01200
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2353/ 0 RN/L = 5.34 GRADIENT INTERVAL = -5.00/ 5.00

MACH 4.960
ALPHA CN CLM CY CYN CBL CAF CAB
-.020 -.03110 .02730 .00670 .01310 .00270 .11920 .00020
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000



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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (I131F) (T9)/(G3)/(S3/2)/(S3/2) G

(R03761) (14 SEP 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 226.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 ORBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2281/ 0 RVL = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	-.14760	-.03710	-.01340	.00320	-.00120	.01220	.04920
.598	-8.000	-.06460	-.03350	-.00640	.00210	-.00100	.02080	.04240
.598	-6.000	-.10840	-.02280	-.01090	.00220	-.00110	.02370	.03800
.598	-4.000	-.07040	-.02390	-.00720	-.00440	-.00130	.02440	.03750
.598	-2.000	-.03010	-.01760	-.00390	-.00460	-.00150	.02800	.03290
.598	.000	-.03660	-.00950	-.00600	-.00430	-.00110	.03070	.02770
.598	2.000	-.01920	.00770	-.00690	-.00220	-.00100	.03400	.01850
.598	4.000	.02100	.00420	.00120	-.00310	-.00090	.03370	.02390
.598	6.000	.03210	.01450	-.00790	-.00100	-.00080	.03460	.02050
.598	8.000	.05670	.02110	-.00910	.00190	-.00050	.03520	.01490
.598	10.000	.08480	.02560	-.01170	.00330	-.00080	.03200	.01130
GRADIENT	.01068	.00407	.00079	.00015	.00006	.00143	-.00209	

RUN NO. 2280/ 0 RVL = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-10.000	-.17130	-.03010	-.01000	-.00050	-.00070	.03100	.04460
.802	-8.000	-.14610	-.02040	-.01140	-.00010	-.00080	.03300	.04090
.802	-6.000	-.12340	-.00800	-.01320	.00050	-.00070	.03190	.03750
.802	-4.000	-.09370	-.00980	-.01220	.00110	-.00030	.03410	.03370
.802	-2.000	-.07020	-.00390	-.01090	.00010	-.00100	.03490	.03010
.802	.000	-.04880	.00360	-.00750	-.00090	-.00100	.03650	.02500
.802	2.000	-.02550	.00960	-.00750	-.00020	-.00070	.03640	.02230
.802	4.000	-.00370	.01640	-.01000	.00170	-.00070	.03300	.02900
.802	6.000	.02450	.01890	.00080	-.00480	.00000	.03320	.02460
.802	8.000	.04820	.02440	-.00220	-.00390	-.00030	.03310	.02400
.802	10.000	.07310	.03330	-.00670	-.00060	-.00070	.03220	.01560
GRADIENT	.01123	.00329	.00039	.00005	-.00002	-.00003	-.00006	

MSFC 570 (1A31F) (T9)/(G3)/(S3/2)/(S3/2) 6 (R85T81) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 226.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CEBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2279/ 0 RN/L = 6.26 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.16580	-.02780	-.01000	-.00140	-.00090	.03070	.05260
.901	-8.000	-.15610	-.01940	-.01030	-.00110	-.00090	.03420	.04900
.901	-6.000	-.13320	-.01070	-.01000	-.00050	-.00070	.03790	.04330
.901	-4.000	-.10860	-.00390	-.00950	.00030	-.00030	.03930	.03970
.901	-2.000	-.08120	.00050	-.00860	-.00010	-.00030	.04070	.03620
.901	.000	-.05690	.00710	-.00510	.00000	-.00010	.04030	.03300
.901	2.000	-.03330	.01330	-.00630	.00000	.00000	.03930	.02970
.901	4.000	-.00820	.01790	-.00390	-.00100	.00000	.03750	.02370
.901	6.000	.01640	.02220	-.00360	-.00010	-.00000	.03470	.03170
.901	8.000	.04980	.02690	-.00620	.00010	-.00000	.03640	.02750
.901	10.000	.07280	.03270	-.00580	.00020	-.00000	.03290	.02900
GRADIENT		.01244	.00282	.00068	-.00012	.00007	-.00030	-.00133

RUN NO. 2277/ 0 RN/L = 6.58 GRADIENT INTERVAL = -.5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.051	-10.000	-.19640	-.02670	-.00880	-.00070	-.00070	.06960	.04720
1.051	-8.000	-.16510	-.01970	-.00800	-.00040	-.00070	.06920	.04350
1.051	-6.000	-.13370	-.01230	-.00830	.00030	-.00080	.07130	.04020
1.051	-4.000	-.10390	-.00570	-.00790	.00090	-.00060	.07260	.03650
1.051	-2.000	-.07630	.00120	-.00700	.00010	-.00060	.07390	.03340
1.051	.000	-.05210	.00810	-.00650	.00000	-.00090	.07300	.03090
1.051	2.000	-.02770	.01480	-.00750	.00060	-.00050	.07060	.02390
1.051	4.000	.00210	.01700	-.00260	-.00090	-.00010	.05710	.02860
1.051	6.000	.02660	.02210	-.00390	.00000	-.00050	.06910	.02630
1.051	8.000	.05620	.02600	.00010	-.00080	-.00060	.06740	.02200
1.051	10.000	.08730	.02690	.00070	-.00090	-.00050	.06490	.01920
GRADIENT		.01303	.00295	.00051	-.00014	.00003	-.00071	-.00127



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TABULATED SOURCE DATA - NSFC 570

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NSFC 570 (1A31F) (T9)/(03)/(S3/2)/(S3/2) 6

(R03761) (14 SEP 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCONF = 226.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2278/ 0 RN/L = 6.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.252	-10.000	-.21410	-.02330	-.01080	-.00070	-.00060	.08270	.05790
1.252	-8.000	-.17490	-.02120	-.00940	-.00110	-.00070	.09420	.05220
1.252	-6.000	-.14140	-.01460	-.00920	-.00030	-.00060	.08340	.04910
1.252	-4.000	-.10950	-.00760	-.00780	-.00070	-.00060	.08700	.04580
1.252	-2.000	-.07890	.00150	-.00650	-.00110	-.00030	.09870	.04220
1.252	.000	-.05400	.01130	-.00310	-.00120	-.00040	.08780	.03910
1.252	2.000	-.03330	.02370	-.00430	-.00130	-.00020	.08700	.03320
1.252	4.000	-.01180	.03210	-.00360	-.00200	-.00030	.08640	.03240
1.252	6.000	.01250	.04130	-.00480	-.00100	-.00030	.08520	.03080
1.252	8.000	.03970	.05000	-.00290	-.00110	-.00030	.08390	.02960
1.252	10.000	.07880	.05350	.00590	-.00400	-.00030	.08040	.02820
1.252	GRADIENT	.01195	.00508	.00053	-.00014	.00002	-.00015	-.00179

RUN NO. 2348/ 0 RN/L = 6.56 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.458	-.110	-.05260	.00980	-.03640	.05740	.00230	.18690	.02590
	GRADIENT	.47818	-.08909	.33091	-.52182	-.01818	-1.69909	-.23545

MSFC 570 (1A31F) (T9)/(Q3)/(S3/2)/(S3/2) 6

(R03T62) (14 SEP 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN. XMRP = 2.5490 IN.
3.3130 IN. YMRP = .0000 IN.
3.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 COAFC = 226.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2273/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-10.000	.00670	-.01970	.09980	.00920	-.00100	.03330	.02780
.599	-8.000	-.00310	-.01730	.07670	.00820	-.00100	.03660	.02640
.599	-6.000	-.01220	-.01260	.05420	.00740	.00100	.03560	.02340
.599	-4.000	-.01950	-.01060	.03430	.00500	-.00070	.04030	.02370
.599	-2.000	-.02860	-.00340	.01330	.00360	-.00150	.03780	.01970
.599	.000	-.03070	-.00520	.00090	-.00490	-.00150	.03680	.02110
.599	2.000	-.02890	-.00560	-.02180	-.00570	-.00110	.03990	.02090
.599	4.000	-.01750	-.01200	-.04980	-.00560	-.00110	.04170	.02110
.599	6.000	-.01390	-.01210	-.06160	-.00960	-.00160	.03760	.02130
.599	8.000	-.00740	-.01490	-.09480	-.00970	-.00110	.04050	.02050
.599	10.000	-.00340	-.01700	-.11220	-.00970	-.00130	.02490	.03520
GRADIENT	.00028	.00028	-.00023	-.00929	-.00162	-.00002	.00004	-.00020

RUN NO. 2274/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.803	-10.000	-.00870	-.00990	.11770	-.00120	-.00050	.03670	.02820
.803	-8.000	.01460	-.01940	.08900	.00050	-.00040	.03460	.02630
.803	-6.000	-.03060	-.00130	.06280	.00220	-.00060	.03940	.02430
.803	-4.000	-.03680	.00100	.03760	.00320	-.00130	.04010	.02510
.803	-2.000	-.03850	.00240	.01490	.00300	-.00040	.03540	.02390
.803	.000	-.04000	.00260	-.00730	.00270	-.00010	.04930	.01420
.803	2.000	-.04030	.00170	-.02090	-.00320	-.00000	.03990	.02360
.803	4.000	-.02740	-.00430	-.04420	-.00310	.00000	.04460	.02370
.803	6.000	-.03280	-.00190	-.06780	-.00360	.00000	.03750	.02670
.803	8.000	-.02580	-.00440	-.10690	.00200	.00000	.03740	.02750
.803	10.000	-.02310	-.00540	-.12840	.00030	-.00020	.03500	.03070
GRADIENT	.00085	.00056	-.00056	-.00997	-.00194	.00017	.00049	-.00015



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TABULATED SOURCE DATA - MSFC 570

PAGE 501

MSFC 570 (1A31F) (T9)/(G3)/(G3/2)/(G3/2) 6

(R03762) (14 SEP 73)

REFERENCE DATA

BREF = 0.1900 SQ. IN. XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 COAFLG = 226.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 GRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2273/ 0 RVL = 6.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.900	-10.000	-.01740	-.00820	.13830	-.01260	-.00030	.03760	.03280
.900	-8.000	-.02370	-.00500	.10360	-.00940	-.00060	.04630	.02590
.900	-6.000	-.03070	-.00130	.07700	-.00700	-.00060	.04190	.02650
.900	-4.000	-.03880	.00270	.05100	-.00520	-.00030	.04390	.02520
.900	-2.000	-.04040	.00390	.02810	-.00450	-.00030	.04330	.02530
.900	.000	-.04480	.00740	.00210	-.00220	-.00030	.04500	.01490
.900	2.000	-.04470	.00660	-.02790	.00270	-.00010	.03990	.02760
.900	4.000	-.04220	.00330	-.05560	.00370	-.00070	.03790	.02960
.900	6.000	-.03670	-.00010	-.07480	-.00010	-.00030	.04410	.02110
.900	8.000	-.01550	-.00740	-.10670	.00360	-.00040	.04330	.02090
.900	10.000	-.02150	-.00570	-.14220	.01100	-.00050	.04180	.02360
	GRADIENT	-.00055	.00020	-.01346	.00125	-.00002	-.00076	.00045

RUN NO. 2276/ 0 RVL = 6.57 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.02250	-.00790	.15360	-.01640	-.00030	.06140	.04690
1.050	-8.000	-.02980	-.00350	.11560	-.01080	-.00040	.06450	.04150
1.050	-6.000	-.03700	.00060	.08250	-.00690	-.00040	.06790	.03940
1.050	-4.000	-.04450	.00410	.05250	-.00450	-.00080	.07050	.03530
1.050	-2.000	-.04770	.00690	.02860	-.00320	-.00050	.06970	.03310
1.050	.000	-.05180	.00740	.00390	-.00250	-.00090	.07290	.02960
1.050	2.000	-.04920	.00710	-.02460	.00040	-.00070	.07150	.03030
1.050	4.000	-.04950	.00580	-.05160	.00170	-.00070	.07180	.03260
1.050	6.000	-.04300	.00240	-.07990	.00450	-.00050	.07010	.03580
1.050	8.000	-.03790	-.00120	-.11570	.01000	-.00050	.06650	.04130
1.050	10.000	-.03300	-.00440	-.15360	.01520	-.00060	.06160	.04370
	GRADIENT	-.00057	.00018	-.01307	.00080	.00000	.00022	-.00041

(R03162) (14 SEP 73)

MSFC 370 (I431F) (T9)/(G3)/(S3/2)/(S3/2) G

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

ALPHA = .000 COAFTC = 226.000
DELTA Z = .140 RUDDER = .000
X-SRB = .000 CFBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2272/ 0 RN/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.253	-10.000	-.02960	.00270	.14970	-.01380	-.00010	.09170	.03260
1.253	-8.000	-.03560	.00360	.10670	-.00390	-.00020	.09320	.02850
1.253	-6.000	-.04010	.00910	.07690	-.00320	-.00030	.09570	.02540
1.253	-4.000	-.04530	.01220	.04990	-.00210	-.00040	.09700	.02270
1.253	-2.000	-.04930	.01470	.02480	-.00130	-.00010	.09690	.02230
1.253	.000	-.05210	.01480	-.00320	.00040	-.00000	.09730	.01930
1.253	2.000	-.04840	.01460	-.02600	.00140	-.00020	.09590	.01970
1.253	4.000	-.04640	.01320	-.05300	.00300	-.00020	.09690	.02290
1.253	6.000	-.04410	.01070	-.09110	.00510	-.00030	.09750	.02440
1.253	8.000	-.04200	.00890	-.11490	.00930	-.00040	.09490	.02910
1.253	10.000	-.04110	.00750	-.15450	.01600	-.00050	.09190	.03340
GRADIENT	-.00007	.00010	-.01282	.00064	.00002	.00002	.00003	-.00011

RUN NO. 2283/ 0 RN/L = 4.63 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
3.480	-10.000	-.05690	.01790	.14980	-.00980	-.00070	.09290	.01440
3.480	-8.000	-.05830	.01610	.11210	-.00330	-.00060	.09230	.01450
3.480	-6.000	-.05800	.01420	.09000	.00020	-.00050	.09190	.01400
3.480	-4.000	-.05110	.01210	.05190	.00170	-.00030	.09200	.01370
3.480	-2.000	-.04990	.01200	.02340	.00180	-.00030	.09190	.01310
3.480	.000	-.05330	.01240	-.00350	.00220	-.00060	.09270	.01310
3.480	2.000	-.05350	.01350	-.02770	.00110	-.00010	.09820	.02060
3.480	4.000	.01520	-.00360	.00390	.00530	.00050	.53670	-.57570
3.480	6.000	-.00020	.00000	-.01780	.00750	-.00140	.57750	-.57110
3.480	8.000	.00000	.00000	-.01400	.00790	.00000	.59000	-.57110
3.480	10.000	.01580	-.00360	.01530	.00620	.00470	.54420	-.57570
GRADIENT	.00645	-.00149	-.00735	.00033	.00010	.00010	.04433	-.05936



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TABULATED SOURCE DATA - WSFC 570

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WSFC 570 (1A31F) (T9)/(O3)/(S3/2)/(S3/2) Y1E

(R03T70) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIC = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 9.100 SPADTA = .200
 SPAGAP = .050

RUN NO. 2267/ 0 RN/L = 6.29 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.898	-10.000	-.17910	-.02340	.00230	-.00190	-.00070	.04640	.03690
.898	-8.000	-.14940	-.01910	.00180	-.00110	.00000	.04800	.03350
.898	-6.000	-.11900	-.01320	.00030	-.00160	-.00020	.04990	.02960
.898	-4.000	-.09190	-.00820	.00010	-.00040	-.00060	.05220	.02440
.898	-2.000	-.06060	-.00620	-.00160	.00290	-.00010	.05450	.02260
.898	.000	-.03920	.00190	.00450	-.00270	-.00030	.04960	.01870
.898	2.000	-.01410	.00670	.00640	-.00320	.00000	.04790	.01420
.898	4.000	.01590	.00770	.01210	-.00600	.00010	.04930	.01570
.898	6.000	.03330	.01750	.01240	-.00490	.00000	.04420	.01390
.898	8.000	.05990	.02110	.00690	-.00300	-.00040	.04550	.00990
.898	10.000	.09200	.02410	.00900	-.00250	.00000	.04390	.00950
	GRADIENT	.01310	.00223	.00160	-.00096	.00007	-.00070	-.00129

RUN NO. 2269/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.19770	-.02900	-.00010	.00000	-.00060	.07320	.04870
1.049	-8.000	-.16070	-.02130	.00130	-.00050	-.00020	.07340	.04530
1.049	-6.000	-.12380	-.01790	.00420	-.00090	.00000	.07440	.04320
1.049	-4.000	-.08860	-.01430	.00560	-.00150	-.00010	.07430	.04040
1.049	-2.000	-.06190	-.00790	.00460	-.00220	-.00020	.07290	.03550
1.049	.000	-.03560	-.00180	.00550	-.00230	-.00050	.07360	.03090
1.049	2.000	-.01340	.00310	.00770	-.00210	-.00010	.07200	.02610
1.049	4.000	.01400	.00660	.00770	-.00230	-.00030	.07130	.02520
1.049	6.000	.03940	.01140	.00790	-.00330	-.00060	.06970	.02280
1.049	8.000	.06660	.01620	.01080	-.00320	.00000	.06760	.02070
1.049	10.000	.09790	.01980	.01120	-.00370	.00000	.06550	.01930
	GRADIENT	.01269	.00273	.00036	-.00007	-.00004	-.00034	-.00199

MSFC 370 (1A31F) (T9)/(C3)/(S3/2)/(S3/2) Y1E

(R93T70) (94 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

SETA = .000 CONFLO = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .050

RUN NO. 2286/ 0 RML = 6.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.246	-10.000	-.20190	-.01990	.00280	-.00080	-.00070	.09630	.04100
1.246	-8.000	-.16160	-.01920	.00190	-.00140	-.00080	.09800	.03700
1.246	-6.000	-.12480	-.01530	.00220	-.00170	-.00090	.09940	.03340
1.246	-4.000	-.09190	-.01060	.00450	-.00260	-.00070	.10060	.03090
1.246	-2.000	-.06250	-.00340	.00660	-.00280	-.00040	.10350	.02650
1.246	.000	-.03990	.00550	.00620	-.00220	-.00050	.10340	.02300
1.246	2.000	-.01990	.01480	.00570	-.00270	-.00070	.10120	.01760
1.246	4.000	.00860	.01900	.00710	-.00290	-.00070	.10050	.01740
1.246	6.000	.03440	.02440	.00920	-.00270	-.00060	.10010	.01440
1.246	8.000	.06060	.02980	.00920	-.00420	-.00070	.09980	.01020
1.246	10.000	.09590	.03270	.00940	-.00430	-.00050	.09650	.00740
	GRADIENT	.01218	.00387	.00022	-.00003	-.00001	-.00012	-.00175

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TABULATED SOURCE DATA - MSFC 570

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MSFC 570 (1A31F) (T8)/(O3)/(S3/21)/(S3/2) Y1E

(R03771) (04 OCT 73)

REFERENCE DATA

SREF = 0.1900 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIC = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBLINC = .500
 SPACER = 9.100 SPADIA = .200
 SPAGAP = .030

RUN NO. 2271/ 0 RM/L = 6.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.901	-10.000	-.03160	.00140	.14130	-.01480	.00020	.04490	.03070
.901	-8.000	-.03620	.00440	.11070	-.01160	.00030	.04650	.02790
.901	-6.000	-.03850	.00540	.09160	-.00880	.00020	.04700	.02530
.901	-4.000	-.03880	.00370	.05320	-.00580	.00000	.04880	.02190
.901	-2.000	-.04010	.00480	.02800	-.00430	.00000	.04890	.01900
.901	.000	-.04000	.00440	.00220	-.00190	-.00010	.05000	.01710
.901	2.000	-.03710	.00240	-.02260	-.00170	-.00040	.04980	.02040
.901	4.000	-.04430	.00900	-.05230	.00260	-.00070	.04960	.01970
.901	6.000	-.04320	.00900	-.06020	.00340	-.00090	.04960	.02000
.901	8.000	-.04080	.00680	-.10740	.00720	-.00040	.04790	.02260
.901	10.000	-.03310	.00160	-.14170	.01220	-.00060	.04370	.02890
	GRADIENT	-.00042	.00021	-.01308	.00097	-.00009	.00023	-.00015

RUN NO. 2269/ 0 RM/L = 6.58 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-10.000	-.02760	-.00310	.15510	-.01980	.00020	.06850	.04440
1.050	-8.000	-.03110	-.00080	.11830	-.01470	.00010	.07240	.03970
1.050	-6.000	-.03520	.00110	.08600	-.01100	.00010	.07980	.03810
1.050	-4.000	-.03650	.00080	.05710	-.00800	.00000	.07130	.03750
1.050	-2.000	-.03640	-.00060	.02980	-.00540	-.00050	.07270	.03480
1.050	.000	-.03510	-.00210	.00130	-.00100	-.00020	.07420	.03180
1.050	2.000	-.03490	-.00190	-.03100	.00480	-.00060	.07260	.03370
1.050	4.000	-.04610	.00440	-.05930	.00730	-.00070	.07390	.03420
1.050	6.000	-.03860	.00310	-.06820	.01090	-.00070	.07510	.03340
1.050	8.000	-.03630	.00100	-.12050	.01410	-.00110	.07220	.03860
1.050	10.000	-.02930	-.00220	-.15860	.02010	-.00090	.07110	.04100
	GRADIENT	-.00088	.00030	-.01468	.00204	-.00007	.00026	-.00038

MSFC 570 (IASIF) (T9)/(C3)/(S3/2)/(S3/2) Y1E

(R83771) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 204.000
 DELTAZ = .140 RUDDER = .000
 X-SR8 = .000 CRBINC = .500
 SPACER = 9.100 SPADIA = .200
 SPACAP = .950

RUN NO. 2270/ 0 RN/L = 6.69 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.250	-10.000	-.03060	.00480	.15260	-.01770	.00040	.09890	.03300
1.250	-8.000	-.03660	.00770	.11300	-.01120	.00010	.09990	.03040
1.250	-6.000	-.04280	.01060	.07980	-.00690	.00010	.10080	.02770
1.250	-4.000	-.04080	.01040	.05250	-.00390	.00000	.09900	.02680
1.250	-2.000	-.04440	.00940	.02510	-.00320	-.00050	.10060	.02430
1.250	.000	-.04330	.00920	-.00490	.00090	-.00050	.10260	.02090
1.250	2.000	-.04470	.01070	-.03190	.00380	-.00060	.10030	.02430
1.250	4.000	-.04490	.01160	-.05940	.00750	-.00070	.09870	.02710
1.250	6.000	-.04420	.01160	-.09010	.01020	-.00140	.09940	.02750
1.250	8.000	-.04120	.01110	-.12230	.01540	-.00120	.09760	.03140
1.250	10.000	-.03570	.00800	-.15980	.02100	-.00120	.09910	.03340
	GRADIENT	-.00042	.00018	-.01404	.00169	-.00057	-.00005	.00003



WSFC 570 (1A31F) (T9)/(Q3)/(S3/2)/(S3/2) Y10

(R03772) (04 OCT 73)

REFERENCE DATA

SREF = 6.1960 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONF1G = 209.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPAGAP = .050

RUN NO. 2258/ 0 RM/L = 6.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.895	-10.000	-.18840	-.02810	.00430	-.00610	-.00070	.03220	.04330
.895	-8.000	-.15410	-.02370	.00280	-.00430	-.00040	.03550	.03900
.895	-6.000	-.12630	-.01770	-.00010	-.00250	-.00020	.03590	.03730
.895	-4.000	-.09970	-.01150	-.00080	-.00150	-.00040	.03640	.03440
.895	-2.000	-.07230	-.00620	.00010	-.00150	-.00010	.03590	.03200
.895	.000	-.05030	.00000	.00370	-.00340	.00000	.03720	.02900
.895	2.000	-.02630	.00660	.00390	-.00110	.00030	.03460	.02610
.895	4.000	.00030	.00950	.00310	-.00110	-.00050	.03290	.02540
.895	6.000	.02320	.01370	.00240	-.00180	-.00040	.03130	.02590
.895	8.000	.05030	.02140	.00360	-.00180	.00000	.03050	.02510
.895	10.000	.07840	.02610	.00370	-.00080	-.00030	.02910	.02500
.895	GRADIENT	.01230	.00274	.00056	.00006	-.00001	-.00042	-.00120

RUN NO. 2260/ 0 RM/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.047	-10.000	-.19860	-.02360	-.00020	.00000	-.00030	.06570	.04610
1.047	-8.000	-.16590	-.01970	.00000	-.00120	-.00060	.06730	.04160
1.047	-6.000	-.13150	-.01420	.00070	-.00150	-.00080	.06780	.03890
1.047	-4.000	-.09620	-.01020	.00180	-.00140	-.00090	.06740	.03660
1.047	-2.000	-.06610	-.00350	.00410	-.00140	-.00050	.06690	.03320
1.047	.000	-.04090	.00120	.00620	-.00140	.00000	.06720	.02750
1.047	2.000	-.01740	.00660	.00630	-.00100	.00030	.06700	.02030
1.047	4.000	.01240	.00790	.00640	-.00290	-.00050	.06620	.02040
1.047	6.000	.03820	.01300	.00440	-.00210	-.00040	.06330	.01930
1.047	8.000	.06320	.01750	.00380	-.00350	-.00090	.06000	.01760
1.047	10.000	.09330	.02240	.00610	-.00340	-.00010	.06160	.01290
1.047	GRADIENT	.01329	.00251	.00037	-.00013	.00006	-.00011	-.00226

NSFC 370(1A31F) (T9)/(G3)/(S3/2)/(S3/2) Y10

(R8372) (04 OCT 75)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 COAFIG = 209.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRSTNC = .500
 SPACER = 21.220 SPADIA = .200
 SPAGAP = .050

RUN NO. 2259/ 0 RN/L = 6.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CIN	CBL	CAF	CAB
1.249	-10.000	-.22160	-.02080	.00030	-.00170	-.00040	.08100	.05470
1.249	-8.000	-.18180	-.01820	.00150	-.00190	-.00030	.08270	.04910
1.249	-6.000	-.14650	-.01340	.00190	-.00170	-.00030	.08390	.04430
1.249	-4.000	-.11300	-.00720	.00310	-.00250	-.00060	.08500	.04000
1.249	-2.000	-.08170	.00010	.00320	-.00310	-.00060	.08520	.03710
1.249	.000	-.05520	.00950	.00060	-.00210	-.00050	.08510	.03430
1.249	2.000	-.03740	.02280	.00440	-.00300	-.00050	.08450	.02910
1.249	4.000	-.01380	.02920	.00690	-.00490	-.00050	.08150	.02850
1.249	6.000	.01560	.03730	.00460	-.00310	-.00050	.07970	.02670
1.249	8.000	.03930	.04660	.00640	-.00340	-.00050	.08090	.02360
1.249	10.000	.07870	.04900	.00910	-.00470	-.00030	.07890	.02010
GRADIENT		.01213	.00477	.00044	-.00023	-.00002	-.00039	-.00155



DATE 08 NOV 74

TABULATED SOURCE DATA - MSFC 970

PAGE 589

MSFC 970 (1A31F) (T9)/(Q3)/(63/8)/(63/8) Y10

(R83T73) (04 OCT 75)

REFERENCE DATA

SREP = 0.1980 SQ. IN XMRP = 2.5490 IN.
 LREP = 5.3130 IN. YMRP = .0000 IN.
 BREP = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 209.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = 21.220 SPADIA = .200
 SPACAP = .030

RUN NO. 2262/ 0 RN/L = 6.16 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
.897	-10.000	-.03200	.00110	.14280	-.01320	.00000	.03390	.03120
.897	-8.000	-.03430	.00280	.10940	-.01060	.00010	.03350	.02770
.897	-6.000	-.04170	.00340	.07970	-.00790	-.00010	.03360	.02990
.897	-4.000	-.04060	.00330	.03330	-.00390	.00000	.03680	.02690
.897	-2.000	-.04190	.00340	.03040	-.00390	-.00020	.04220	.01920
.897	.000	-.04020	.00450	.00460	-.00410	.00300	.03600	.02620
.897	2.000	-.04210	.00300	-.02300	-.00300	-.00070	.03450	.02940
.897	4.000	-.04510	.00910	-.03000	-.00010	-.00360	.04270	.01940
.897	6.000	-.04350	.00690	-.07970	.00490	-.00030	.04130	.02030
.897	8.000	-.03750	.00420	-.10730	.00750	-.00010	.03610	.02350
.897	10.000	-.03520	.00240	-.14150	.01140	-.00030	.03490	.02760
GRADIENT	-.00047	.00026	-.01300	.00072	-.00006	-.00021	-.00029	

RUN NO. 2261/ 0 RN/L = 6.47 GRADIENT INTERVAL = -5.00/ 3.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-10.000	-.02950	-.00300	.16130	-.02160	-.00020	.03990	.04070
1.049	-8.000	-.03330	-.00020	.12330	-.01600	.00000	.06380	.03610
1.049	-6.000	-.03500	.00050	.09070	-.01220	.00010	.06240	.03590
1.049	-4.000	-.03640	.00090	.06030	-.00890	.00000	.06530	.03230
1.049	-2.000	-.03780	.00040	.02970	-.00540	-.00040	.06670	.02710
1.049	.000	-.03780	-.00040	.00010	-.00080	-.00050	.06840	.02670
1.049	2.000	-.03500	-.00210	.02990	.00430	-.00030	.06430	.03180
1.049	4.000	-.03800	.00150	-.03620	.00620	-.00010	.06370	.03290
1.049	6.000	-.03690	.00090	-.08790	.01020	-.00040	.06540	.03390
1.049	8.000	-.03200	-.00150	-.12290	.01330	-.00030	.06420	.03660
1.049	10.000	-.02930	-.00270	-.16310	.02090	-.00060	.06100	.03970
GRADIENT	-.00002	-.00007	-.01463	.00199	-.00000	-.00026	-.00026	

MSFC 370 (1A31F) (T9)/(03)/(S3/2)/(S3/2) Y10

(R03T73) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SO. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

PARAMETRIC DATA

ALPHA = .000 CONFIG = 209.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 GRBINC = .500
SPACER = 21.220 SPADIA = .200
SPACAP = .030

RUN NO. 2263/0 RN/L = 6.63 GRADIENT INTERVAL = -3.00/ 3.00

MACH	BETA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.247	-10.000	-.04085	.00900	.13450	-.01800	-.00010	.09710	.03210
1.247	-8.000	-.04045	.00950	.11510	-.01210	.00010	.09750	.02990
1.247	-6.000	-.04430	.01040	.08110	-.00780	.00010	.09030	.02430
1.247	-4.000	-.04670	.01100	.05150	-.00370	-.00030	.09170	.02010
1.247	-2.000	-.04560	.01010	.02490	-.00350	-.00050	.09140	.01830
1.247	.000	-.04340	.00770	-.00370	.00000	-.00060	.09370	.01640
1.247	2.000	-.04590	.01050	-.03020	.00310	-.00010	.09070	.02020
1.247	4.000	-.04870	.01260	-.06030	.00670	-.00060	.09060	.02090
1.247	6.000	-.05040	.01320	-.09020	.00970	-.00100	.09110	.02330
1.247	8.000	-.04560	.01450	-.12250	.01370	-.00030	.09770	.02960
1.247	10.000	-.05090	.01550	-.16360	.01990	-.00100	.09700	.03270
	GRADIENT	-.00022	.00019	-.01393	.00157	.00002	-.00015	.00016



MSFC 570 (1A31F) (T11) (S3/2)/(O31)/(S3/2)

(R83T75) (04 OCT 75)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN
5.3130 IN.
5.3130 IN.
.0040

YMRP = 2.5490 IN.
YMRP = .0000 IN.
ZMRP = .0000 IN.

PARAMETRIC DATA

BETA = .000 CONFIG = 217.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CR9INC = .500
SPACER = .000 SPADIA = .000
SPACAP = .000

RUN NO. 2293/ 0 RN/L = 5.77 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.308	-.150	-.07000	-.00060	-.04210	.04680	.00100	.18230	-.04250
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2292/ 0 RN/L = 6.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.052	-.150	-.07150	.00950	-.04550	.03270	.00170	.25860	-.09600
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2288/ 0 RN/L = 6.09 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAS
1.261	-.160	-.07910	.01730	-.04770	.03600	.00290	.32990	-.13610
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2300/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.461	-.120	-.05940	.00920	-.04950	.05980	.00260	.15970	.02730
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2503/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.968	-.150	-.07260	.02230	-.03330	.04900	.00260	.14090	.02290
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2284/ 0 RN/L = 4.21 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.090	-.08560	.02650	-.02900	.03930	.00450	.11670	.01330
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2287/ 0 RN/L = 5.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.030	-.07030	.03920	-.01420	.02340	.00370	.03350	.00320
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



MSFC 570(1A31F) (T12) (S3/2) / (C3) / (S3/2)

(R83776) (04 OCT 73)

REFERENCE DATA

XBRF = 0.190 SQ. IN XRP = 2.340 IN.
 LRF = 3.130 IN. YRP = .000 IN.
 BRF = 3.130 IN. ZRP = .000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	210.000
DELTAE	=	.140	RUDDER	=	.000
X-SRB	=	.000	CRBTNC	=	.500
SPACER	=	.000	SPADIA	=	.000
SPACER	=	.000			

RUN NO. 2299/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH		ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.596		-.070	-.04730	-.01120	-.04680	.04400	-.00020	.07530	.03420
		GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2296/ 0 RNL = 5.53 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 2295/ 0 RN/L = 5.84 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 2291/ 0 RN/L = 6.04 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

RUN NO. 2290/ 0 RN/L = 6.14 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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RUN NO. 2301/ 0      RM/L = 5.97      GRADIENT INTERVAL = -5.00/ 5.00

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	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH	- .120	-.06060	.01030	-.04890	.03960	.00270	.17010	.02740
.462	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

UN NO. 2302/ 0 RM/L = 6.38 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

NSFC 370 (1A31F) (T18) (S3/2) (G3) (S3/2)

(R83176) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 COMFIC = 218.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2285/ 0 RV/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH 2.990 ALPHA CN CLM CY CYN CBL CAF CAB
-.070 -.07430 .02260 -.02920 .03970 .00370 .13260 .01280
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2287/ 0 RV/L = 5.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH 4.960 ALPHA CN CLM CY CYN CBL CAF CAB
-.030 -.07030 .03920 -.01420 .02540 .00370 .09330 .00320
GRADIENT 2.34333 -1.30667 .47333 -.84667 -.12333 -3.11667 -.17333

NSFC 370 (1A31F) (T7) (S3/2) (G3) (S3/2)

(R43177) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

BETA = .000 COMFIC = 219.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2372/ 0 RV/L = 4.73 GRADIENT INTERVAL = -5.00/ 5.00

MACH .596 ALPHA CN CLM CY CYN CBL CAF CAB
-.070 -.04920 -.01420 -.03960 .04640 -.00020 .08860 .03430
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2371/ 0 RV/L = 5.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH .799 ALPHA CN CLM CY CYN CBL CAF CAB
-.120 -.06120 -.00650 -.03440 .04360 .00010 .09020 .04090
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000

RUN NO. 2370/ 0 RV/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH .896 ALPHA CN CLM CY CYN CBL CAF CAB
-.160 -.07410 -.00260 -.03240 .04300 .00020 .09690 .04770
GRADIENT .00000 .00000 .00000 .00000 .00000 .00000 .00000 .00000



MSFC 570(1A31F) (T7) (S3/2) / (Q3) / (S3/2)

(R83777) (04 OCT 73)

REFERENCE DATA

SRF 3
LRF 3
BRF 3
SCALE 3

6.1980 SQ.
3.3130 IN.

6.190 SQ. IN. XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.

6.190 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.

6.190 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.

6.1980
3.3130

PARAMETRIC DATA

BETA	=	.000	CONFIG	=	219.000
DELTA Z	=	.140	RUDDER	=	.000
X-SRB	=	.000	CABINIC	=	.900
SPACER	=	.000	SPADIA	=	.000
SPAGAP	=	.000			

BETA =	,000	CONFIG =	219,000
DELTAZ =	,140	RUDDER =	,000

BETA =	,000	CONFIG =	219,000
DELTAZ =	,140	RUDDER =	,000

BETA =	,000	CONFIG =	219,000
DELTAZ =	,140	RUDDER =	,000

BETA =	,000	CONFIG =	219,000
DELTAZ =	,140	RUDDER =	,000

RUN NO. 2369/ 0 RN/L = 6.23 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH	-1.180	-0.07750	.00310	-.02980	.04870	.00100	-.13230	.03140
	1.047							

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH	-1.180	-0.07750	.00310	-.02980	.04870	.00100	-.13230	.03140
	1.047							

RUN NO. 2369/ 0 RN/L = 6.30 GRADIENT INTERVAL = -5.00/ 1.00

[illegible]

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH								
1.250	-1.180	-0.07790	0.02080	-0.03600	0.05890	0.00240	0.17300	0.33400

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH								
1.250	-1.180	-0.07790	0.02080	-0.03600	0.05890	0.00240	0.17300	0.33400

RUN NO. 2367/ 0 RN/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	- .120	-.06010	.01030	-.03640	.05710	.09290	.17460	.02760

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.459	- .120	-.06010	.01030	-.03640	.05710	.09290	.17460	.02760

RUN NO. 2362/ 0 RV/L = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MARCH	1.937	-.140	-.06720	-.02120	.04450	.00230	.15840	.02330

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MARCH	1.937	-.140	-.06720	-.02120	.04450	.00230	.15840	.02330

RUN NO. 2360/ 0 RVL = 4.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	- .080	-.08110	.02340	-.02240	.03760	.00310	.13770	.01300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH								
2.990	- .080	-.08110	.02340	-.02240	.03780	.00310	.13770	.01300

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
MACH								
2.990	- .080	-.08110	.02340	-.02240	.03780	.00310	.13770	.01300

RUN NO. 2361/ 0 RM/L = 5.10 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

MACH	ALPHA	CN	CLH	CY	CYN	CBL	CAF	CAB
1.960	-.020	-.05880	.03490	-.01220	.02460	.00340	.10870	.00320

ALPHA	CN	CLH	CY	CYN	CBL	CAF	CAB
1.960	-.020	.03490	-.01220	.02460	.00340	.10670	.00320

MSFC 570 (1A31F) (T13) (S3/2)/(C31)/(S3/2)

(R83178) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN
 LREF = 5.3130 IN.
 BREF = 5.3130 IN.
 SCALE = .0040

XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

PARAMETRIC DATA

BETA = .000 COMFIC = 220.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2382/ 0 RN/L = 4.93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.598	-.070	-.04680	-.01920	-.04370	.04690	-.00040	.06780	.03160
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2381/ 0 RN/L = 5.91 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.802	-.120	-.06090	-.00650	-.03600	.04430	.00020	.06990	.04060
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2380/ 0 RN/L = 6.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.893	-.150	-.07290	-.00240	-.03180	.04330	.00080	.09770	.04610
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2379/ 0 RN/L = 6.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.049	-.150	-.06740	.00350	-.03050	.04940	.00050	.15060	.03200
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2378/ 0 RN/L = 6.60 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-.160	-.07950	.01700	-.03170	.05220	.00220	.18740	.03350
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2365/ 0 RN/L = 6.11 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-.120	-.05890	.00970	-.03760	.05710	.00260	.19100	.02690
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2364/ 0 RN/L = 6.61 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.962	-.120	-.06070	.01760	-.02420	.04350	.00220	.17290	.02300
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



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TABULATED SOURCE DATA - WSFC 570

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MSFC 570(1A31F) (T13) (S3/2)/(C3)/(S3/2)

(R03T78) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 220.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

RUN NO. 2358/ 0 RN/L = 4.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.080	-.07880	.02450	-.02020	.03580	.00260	.15110	.01270
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2359/ 0 RN/L = 5.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.03530	.03070	-.01240	.02190	.00240	.12450	.00260
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.5490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 221.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

MSFC 570(1A31F) (T13) (S3/2)/(C3)/(S3/2)

(R03T79) (04 OCT 73)

RUN NO. 2238/ 0 RN/L = 6.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.899	-10.000	-1.8570	-.03310	-.00430	-.00040	-.00030	.02190	.05520
.899	-6.000	-.13320	-.01590	-.00200	-.00040	-.00040	.02870	.04620
.899	-8.000	-.15800	-.02360	-.00160	-.00200	-.00040	.02580	.05170
.899	-4.000	-.10500	-.00870	-.00070	-.00140	-.00030	.03100	.04070
.899	-2.000	-.07890	-.00270	-.00280	-.00080	-.00070	.03070	.03840
.899	.000	-.05610	.00470	.00200	-.00160	-.00040	.03070	.03640
.899	2.000	-.02980	.00960	.00140	-.00030	-.00010	.02990	.03290
.899	4.000	-.00780	.01550	.00070	-.00010	-.00030	.03000	.03040
.899	6.000	.02030	.02230	.00170	.00000	-.00040	.02970	.03040
.899	8.000	.04540	.02850	.00100	.00000	-.00060	.02660	.03040
.899	10.000	.07340	.03530	.00270	-.00010	-.00040	.02620	.02910
	GRADIENT	.01217	.00304	.00035	.00015	.00003	-.00019	-.00130

MSFC 570 (1A31F) (T111)/(S3/2)/(031)/(S3/2)

(R83779) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 50. IN
 LREF = 5.3130 IN.
 SREF = 5.3130 IN.
 SCALE = .0040

XMRP = 2.5490 IN.
 YMRP = .0000 IN.
 ZMRP = .0000 IN.

BETA = .000 CONFIG = 221.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPAGAP = .000

PARAMETRIC DATA

RUN NO. 2239/ 0 RV/L = 6.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.249	-10.000	-21680	-.02890	.00220	-.00290	-.00070	.03340	.05910
1.249	-8.000	-.17890	-.02430	.00130	-.00250	-.00060	.03470	.05320
1.249	-6.000	-.14490	-.01730	-.00170	-.00240	-.00070	.05590	.05120
1.249	-4.000	-.11130	-.00940	-.00360	-.00260	-.00040	.05950	.04730
1.249	-2.000	-.08130	.00040	.00110	-.00360	-.00020	.05960	.04440
1.249	.000	-.05750	.01210	.00430	-.00380	-.00070	.05960	.03970
1.249	2.000	-.03730	.02490	.00190	-.00130	-.00050	.05780	.03410
1.249	4.000	-.01280	.03410	.00750	-.00510	-.00050	.05550	.03340
1.249	6.000	.01500	.04240	.00580	-.00650	-.00040	.05520	.02990
1.249	8.000	.03840	.05410	.00540	-.00490	-.00020	.05070	.03040
1.249	10.000	.06730	.06270	.00440	-.00400	-.00040	.05190	.02610
GRADIENT		.01205	.00557	.00115	-.00014	-.00003	-.00034	-.00191

RUN NO. 2232/ 0 RV/L = 6.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.000	-10.000	-26150	.03990	.00020	.00160	-.00030	.05350	.01220
4.000	-8.000	-.22020	.03360	-.00430	.00240	-.00090	.05220	.01220
4.000	-6.000	-.17760	.02910	-.00490	.00390	-.00060	.05120	.01190
4.000	-4.000	-.13250	.02270	-.00390	.00230	-.00040	.05030	.01110
4.000	-2.000	-.09340	.01790	.00090	.00190	.00000	.05240	.01130
4.000	.000	-.06020	.01430	.00030	.00210	-.00010	.05270	.01190
4.000	2.000	-.02290	.01370	-.00420	.00260	-.00120	.05090	.01110
4.000	4.000	.01860	.01020	.00130	.00090	.00060	.05150	.00960
4.000	6.000	.03620	.00720	.00360	.00070	.00010	.05480	.00900
4.000	8.000	.05520	.00370	.00400	.00090	.00060	.05500	.00940
4.000	10.000	.14440	-.00400	.00100	.00090	-.00040	.05580	.00820
GRADIENT		.01866	-.00146	.00016	-.00012	.00004	.00003	-.00026



MSFC 570(1A31F) (Y11)/(35/2)/(03)/(33/2)

(R03700) (04 OCT 73)

REFERENCE DATA

BREF 3
 LREF 3
 BREF 3
 SCALE 3

6.1980 SQ. IN XMRP = 2.549D IN.

LREF = 5.3130 IN.

5.3130 IN. YMRP = .0000 IN.

REF - 3.3130 IN.

3.3130 IN. ZMRP = .0000 IN.

SCALE = .0040

PARAMETRIC DATA

BETA	2	.000	CONFIC	2	221,000
DELTAZ	2	.140	RUDDER	2	.000
X-SRB	2	.000	CASINC	2	.000
SPACER	2	.000	SPADIA	2	.000
SPAGAC	2	.000			

BETA = .000 CONFIG = 221.000

DELTA Z =	.140	RUDDER =	.900
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DATE	DESCRIPTION	AMOUNT	BALANCE
1950	1000	1000	1000
1951	1000	1000	1000
1952	1000	1000	1000
1953	1000	1000	1000
1954	1000	1000	1000
1955	1000	1000	1000
1956	1000	1000	1000
1957	1000	1000	1000
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1959	1000	1000	1000
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1961	1000	1000	1000
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2029	1000	1000	1000
2030	1000	1000	1000
2031	1000	1000	1000
2032	1000	1000	1000
2033	1000	1000	1000
2034	1000	1000	1000
2035	1000	1000	1000

SPACER = .000 SPADIA = .000

RUN NO. 2236/ D RW/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

MACH	ALPHA	CN	CLM	CY	CYN	CBI	CAF	CAB
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.604	- .040	- .01680	.00390	- .00340	.00060	.03030
						.03710

RUN NO. 2237/ 0 RNL = 5.69 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

MACH	ALPHA	CN	CLM	CY	CYN	CRJ	CAF	CAB
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	CO ₂	CH ₄	CO ₂ e	CO ₂	CH ₄	CO ₂ e
0.800	-0.080	-0.0420	-0.00340	0.00070	-0.00110	-0.00010
						0.02710

RUN NO. 2240/ 0 RM/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

	MACH	ALPHA	CN	CLM	C	CN	CBL	CAF	CAB
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	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2
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RUN NO. 2247/ 0 RM/L = 6.39 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

MACH						CAD
ALPHA	CN	CLM	Q	CYN	CRI	CAF

	- .110	-.03860	.00050	.00020	-.02020	.05097	0.1150
1.461							

RUN NO. 2246/ 0 RV/L = 6.87 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

HACH	ALPHA	CN	CLM	R	CYN	CBI	CAP	CIS
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	SEN	CIN	CBL	CAF	CAB
.961	-.110	-.04950	.00330	-.00060	.00010

UN NO. 2251/ 0	RN/L = 4.30	GRADIENT INTERVAL = -5.00/ 5.00
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[illegible]

ACH
AL BHA
CN
Z
Z
Z
Z

Model	CM	CN	CEM	CY	CYN	CBL	CAF	CAB
990	-0.970	-0.9580	0.100	0.040	0.000	0.000	0.000	0.000

UN NO: 2233/ 0 RVL = 3.18 GRADIENT INTERVAL = 0.00' 4.00'

	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
TACH								
960	-.020	-.03790	.01320	.00370	-.00060	.00010	.03990	-.00460
GRADIENT								

[illegible]

(R3701) (94 OCT 73)

MSFC 570(1A31F) (T12)/(S3/2)/(C3)/(S3/2)

REFERENCE DATA

BREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CCAFTG = 222.000
 DELTAZ = .140 RUDDER = .000
 X-SFB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2243/ 0 RNVL = 6.12 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
.902	-10.000	-.19980	-.02700	.01220	-.00850	-.00040	.03310	.03170
.902	-8.000	-.15730	-.02030	.00680	-.00600	-.00010	.03550	.04850
.902	-6.000	-.13100	-.01230	.00170	-.00370	-.00010	.03700	.04440
.902	-4.000	-.10730	-.00490	.00370	-.00300	-.00030	.03920	.03930
.902	-2.000	-.08090	.00010	.00340	-.00310	-.00060	.03650	.03740
.902	.000	-.05370	.00490	.00630	-.00470	.00000	.03270	.04490
.902	2.000	-.03260	.01290	.00320	-.00160	-.00030	.03760	.03150
.902	4.000	-.00020	.01440	.00580	-.00180	-.00080	.03720	.03090
.902	6.000	.01990	.01870	.00230	-.00190	-.00070	.03730	.02960
.902	8.000	.04680	.02760	.00310	-.00100	-.00050	.03540	.02990
.902	10.000	.07650	.03320	.00380	-.00160	-.00030	.03160	.03010
GRADIENT		.01312	.00253	.00018	.00019	-.00002	-.00025	-.00105

RUN NO. 2242/ 0 RNVL = 6.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.248	-10.000	-.21200	-.02820	.00000	-.00150	-.00040	.06510	.05990
1.248	-8.000	-.17460	-.02350	.00070	-.00220	-.00050	.06560	.05390
1.248	-6.000	-.13990	-.01720	.00190	-.00300	-.00060	.06900	.04960
1.248	-4.000	-.10760	-.00910	.00350	-.00440	-.00070	.06910	.04630
1.248	-2.000	-.07880	.00040	.00360	-.00400	-.00060	.07050	.04330
1.248	.000	-.03470	.01170	.00530	-.00430	-.00070	.07010	.03990
1.248	2.000	-.03230	.02270	.00500	-.00370	-.00070	.06990	.03340
1.248	4.000	-.01040	.03190	.00680	-.00370	-.00070	.06520	.03150
1.248	6.000	.01410	.04250	.00530	-.00380	-.00040	.06550	.03110
1.248	8.000	.03920	.05250	.00520	-.00430	-.00040	.06490	.02940
1.248	10.000	.07380	.05910	.00820	-.00490	-.00040	.06450	.02420
GRADIENT		.01204	.00521	.00040	-.00007	-.00000	-.00038	-.00198



MSFC 370(1A31F) (T12)/(S3/2)/(Q3)/(S3/2)

(R83782) (04 OCT 73)

REFERENCE DATA

SREF = 6.1980 SQ. IN XMRP = 2.3490 IN.
 LREF = 5.3130 IN. YMRP = .0000 IN.
 BREF = 5.3130 IN. ZMRP = .0000 IN.
 SCALE = .0040

PARAMETRIC DATA

BETA = .000 CONFIG = 222.000
 DELTAZ = .140 RUDDER = .000
 X-SRB = .000 CRBINC = .500
 SPACER = .000 SPADIA = .000
 SPACAP = .000

RUN NO. 2241/ 0 RN/L = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.050	-.100	-.03170	.00840	.00740	-.00410	-.00060	.06840	.03090
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2246/ 0 RN/L = 6.37 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.462	-.100	-.03860	.00150	.00230	.00030	.00020	.07540	.03030
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2249/ 0 RN/L = 6.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
1.954	-.110	-.04930	.01120	.00330	-.00080	-.00020	.07700	.02530
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2250/ 0 RN/L = 4.27 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
2.990	-.060	-.03220	.00650	.00320	-.00030	-.00100	.07410	.01470
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RUN NO. 2254/ 0 RN/L = 5.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CY	CYN	CBL	CAF	CAB
4.960	-.020	-.03630	.01520	.00010	.00010	.00100	.06920	.00590
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000



NSFC 570 (1A31F) (T7)/(C3)/(S3/2)/(S3/2)

(R83783) (04 OCT 73)

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFTG = 223.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2334/ 0 RN/L = 4.20 GRADIENT INTERVAL = -5.00/ 5.00

MACH 2.990

ALPHA CN CLM
-.070 -.05680 .00910
GRADIENT .00000 .00000 .00000

CY CYN CBL CAF CAB
.00210 .00010 .00020 .00110 .01360
.00000 .00000 .00000 .00000 .00000

RUN NO. 2335/ 0 RN/L = 5.22 GRADIENT INTERVAL = -5.00/ 5.00

MACH 4.980

ALPHA CN CLM
-.020 -.03620 .01320
GRADIENT .00000 .00000 .00000

CY CYN CBL CAF CAB
.00190 -.00050 .00030 .07080 .00170
.00000 .00000 .00000 .00000 .00000

REFERENCE DATA

SREF =
LREF =
BREF =
SCALE =

6.1980 SQ. IN XMRP = 2.5490 IN.
5.3130 IN. YMRP = .0000 IN.
5.3130 IN. ZMRP = .0000 IN.
.0040

PARAMETRIC DATA

BETA = .000 COAFTG = 224.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 ORBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

RUN NO. 2373/ 0 RN/L = 4.78 GRADIENT INTERVAL = -5.00/ 5.00

MACH .600

ALPHA CN CLM
-.040 -.03280 -.00680
GRADIENT .00000 .00000 .00000

CY CYN CBL CAF CAB
.00130 -.00010 .00030 .02330 .02910
.00000 .00000 .00000 .00000 .00000

RUN NO. 2374/ 0 RN/L = 5.87 GRADIENT INTERVAL = -5.00/ 5.00

MACH .802

ALPHA CN CLM
-.080 -.04560 -.00100
GRADIENT .00000 .00000 .00000

CY CYN CBL CAF CAB
-.00010 .00010 -.00050 .02820 .03630
.00000 .00000 .00000 .00000 .00000

RUN NO. 2375/ 0 RN/L = 7.59 GRADIENT INTERVAL = -5.00/ 5.00

MACH .898

ALPHA CN CLM
.270 .17260 -.04400
GRADIENT .00000 .00000 .00000

CY CYN CBL CAF CAB
-.05540 .02810 .00690 .19350 -.01570
.00000 .00000 .00000 .00000 .00000



TABULATED SOURCE DATA - NSFC 570

DATE 03 NOV 74

(R63704) (04 OCT 73)

NSFC 570(1A31F) (T13)/(C3)/(S3/2)/(S3/2)

PARAMETRIC DATA

BETA = .000 CONFIC = 224.000
DELTAZ = .140 RUDDER = .000
X-SRB = .000 CRBINC = .500
SPACER = .000 SPADIA = .000
SPAGAP = .000

REFERENCE DATA

SREF = 0.190 SQ. IN XMRP = 2.3490 IN.
LREF = 5.3130 IN. YMRP = .0000 IN.
BREF = 5.3130 IN. ZMRP = .0000 IN.
SCALE = .0040

RUN NO. 2376/ 0 RVL = 6.28 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.046
ALPHA -.100 CN CLM .00620
GRADIENT .00000 .00000
CY CYN CBL CAF CAB
.00530 -.00290 -.00080 .06740 .02730
.00000 .00000 .00000 .00000 .00000

RUN NO. 2377/ 0 RVL = 6.40 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.246
ALPHA -.110 CN CLM .01190
GRADIENT .00000 .00000
CY CYN CBL CAF CAB
.00490 -.00320 .00000 .09220 .03610
.00000 .00000 .00000 .00000 .00000

RUN NO. 2366/ 0 RVL = 6.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.459
ALPHA -.110 CN CLM .00200
GRADIENT .00000 .00000
CY CYN CBL CAF CAB
-.00370 .00190 .00000 .10030 .02820
.00000 .00000 .00000 .00000 .00000

RUN NO. 2363/ 0 RVL = 6.66 GRADIENT INTERVAL = -5.00/ 5.00

MACH 1.959
ALPHA -.110 CN CLM .00900
GRADIENT .00000 .00000
CY CYN CBL CAF CAB
.00220 .00000 .00000 .09970 .02490
.00000 .00000 .00000 .00000 .00000

RUN NO. 2356/ 0 RVL = 4.26 GRADIENT INTERVAL = -5.00/ 5.00

MACH 2.990
ALPHA -.060 CN CLM .00930
GRADIENT .00000 .00000
CY CYN CBL CAF CAB
.00110 .00030 .00010 .09680 .01410
.00000 .00000 .00000 .00000 .00000

RUN NO. 2357/ 0 RVL = 5.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH 4.960
ALPHA -.030 CN CLM .01400
GRADIENT .00000 .00000
CY CYN CBL CAF CAB
-.00590 .00090 .00000 .08810 .00320
.00000 .00000 .00000 .00000 .00000